

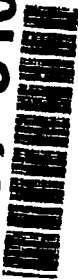


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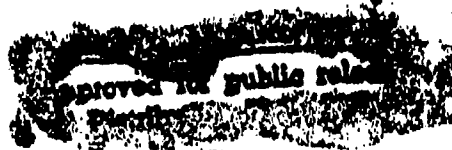
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TECHNICAL SUPPORT FOR
ROCKY MOUNTAIN ARSENAL

DRAFT FINAL
WATER REMEDIAL INVESTIGATION REPORT

(Version 2.2)
Volume II



EBASCO SERVICES INCORPORATED

R. L. Stollar & Associates, Inc.

Hunter/ESE, Inc.

Harding Lawson Associates

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**TECHNICAL SUPPORT FOR
ROCKY MOUNTAIN ARSENAL**

**DRAFT FINAL
WATER REMEDIAL INVESTIGATION REPORT**

**(Version 2.2)
Volume II**

March 1989

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and DAAA-15-88-D-0024**

Prepared By

**EBASCO SERVICES INCORPORATED
R. L. Stollar & Associates, Inc.
Hunter/ESE, Inc.
Harding Lawson Associates**

Prepared For

**U.S. Army Program Manager's Office for
Rocky Mountain Arsenal Contamination Cleanup**

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ACRONYMS AND ABBREVIATIONS

ac-ft	acre-feet
ac-ft/mo	acre-feet per month
ac-ft/yr	acre-feet per year
ACL	alternative concentration limit
Al	A lithologic zone - lower
Am	A lithologic zone - middle
ARAR	Applicable or Relevant and Appropriate Requirement
Army	Department of the Army
As	A lithologic zone - channel
ASTM	American Society for Testing and Materials
ASY	apparent specific yield
atm-m ³ /mole	atmosphere-cubic meter per mole
Au	A lithologic zone - upper
AWQC	ambient water quality criteria
12DCLE	1,2 dichloroethane
BTZ	benzothiazole
CC	Contamination Control
CCC	Colorado Climate Center
CCl ₄	Carbon Tetrachloride
CDH	Colorado Department of Health
CDM	Camp Dresser & McKee, Inc.
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CF&I	Colorado Fuel and Iron
cfs	cubic feet per second
CH ₂ Cl ₂	Methylene Chloride
cm/sec	centimeters per second
CMP	Comprehensive Monitoring Program
COE	U.S. Army Corps of Engineers
CPMS	chlorophenylmethyl sulfide
CPMSO	chlorophenylmethyl sulfoxide
CPMSO ₂	chlorophenylmethyl sulfone
CRL	certified reporting limits

ACRONYMS AND ABBREVIATIONS (Continued)

CSU	Colorado State University
CSU-GWFlow	Colorado State University Groundwater Flow Model
CWP	Composite Well Program
CWQ	Clean Water Act
DBCP	Dibromochloropropane
11DCE	1,1-dichloroethylene
11DCLE	1,1-dichloroethane
12DCE	trans-1,2-dichloroethylene
DCPD	Dicyclopentadiene
DIMP	Diisopropylmethyl phosphonate
1,4-DITH	1,4-dithiane
DMDS	dimethyldisulfide
DMMP	dimethylmethyl phosphonate
DOJ	Department of Justice
EA	Endangerment Assessment
EDL	elevated detection limit
EPA	U.S. Environmental Protection Agency
ESE	Environmental Science and Engineering, Inc.
FCP	First Creek Paleochannel
Fm	Formation
FRICO	Farmer's Reservoir and Irrigation Company
FS	Feasibility Study
ft	feet
ft/day	feet per day
ft/ft	feet per foot
ft/sec	feet per second
ft/yr	feet per year
ft ³	cubic feet
FY87	Fiscal Year 1987
gal/ft ²	gallons per square foot
GB	nerve gas comprised of Sarin
GC	gas chromatograph
G/ml	gram per milliliter
GC/MS	gas chromatography/mass spectrometry

ACRONYMS AND ABBREVIATIONS (Continued)

gpd/ft	gallons per day per foot
gpm	gallons per minute
H	Henry's Law Constant
HCCPD or CL ₆ CP	hexachlorocyclopentadiene
HGU	Hydrogeologic unit
HLA	Harding Lawson Associates
HSL	Hazardous Substance List
ICAP	inductively-coupled argon plasma
ICS	Irondale Containment System
ID	inside diameter
in/hr	inches per hour
in/mo	inches per month
IRA	Interim Response Action
ISP	Initial Screening Program
K	hydraulic conductivity
K _{oc}	organic carbon partition coefficient
K _d	partition coefficient
K _{ow}	octanol/water partition coefficient
LA	Lignite A
LB	Lignite B
lbs/ft ³	pounds per cubic foot
LC	Lignite C
LD	Lignite D
MCL	maximum contaminant level
MCLG	maximum contaminant level goal
mg/l	milligrams per liter
mi	miles
MIBK	methylisobutyl ketone
MKE	Morrison-Knudsen Engineers, Inc.
mm	millimeter
mph	miles per hour
msl	mean sea level
NBCS	North Boundary Containment System

ACRONYMS AND ABBREVIATIONS (Continued)

NBTP	North Boundary Treatment Plant
NBW	north boundary west
NTC	nontarget compounds
NWBCS	Northwest Boundary Containment System
NWBP	Northwest Boundary Paleochannel
O&M	operation and maintenance
O ₃	ozone
PAS	Parties and the State
OCP	organochlorine pesticide
OD	outside diameter
°F	degrees Farenheit
OXAT	oxathiane
OX/DITH	Combined oxathiane and dithiane
PCE	tetrachloroethylene
PI	plasticity index
PID	photoionization detector
PMO-RMA	U.S. Army Program Manager's Office for Rocky Mountain Arsenal Contamination Cleanup
PMSO	Program Manager Staff Office
p,p'-DDE	p,p'-1,1-dichloro-2,2-bis(4-chlorophenyl)-ethylene
p,p'-DDT	p,p'-dichlorodiphenyltrichloroethane
PPLV	Preliminary Pollutant Limit Value
ppm	parts per million
psi	pounds per square inch
PVC	polyvinyl chloride
QA1	Paleochannels in terrace gravels
QA2	Paleochannels in eolian deposits (w/gravels)
QA3	Silty terrace gravels and coarse sand
QA4	Paleochannels in eolian deposits (w/o gravels)
QAE	Eolian deposits
QA/QC	Quality Assurance/Quality Control
QC	Quality control
QT	Quarternary terrace gravels
RCI	Resource Consultants, Inc.

ACRONYMS AND ABBREVIATIONS (Continued)

RCRA	Resource Conservation and Recovery Act
R _f	Retardation factor
R _i	Remedial Investigation
RI/FS	Remedial Investigation/Feasibility Study
RIC	RMA Information Center
RMA	Rocky Mountain Arsenal
RMACCPMT	Rocky Mountain Arsenal Control Management Team
ROD	Record of Decision
SACWSD	South Adams County Water and Sanitation District
SAR	Study Area Report
SARA	Superfund Amendments and Reauthorization Act
SCC	Shell Chemical Company
SCS	Soil Conservation Service
SDWA	Safe Drinking Water Act
Shell	Shell Chemical Oil Company
SO ₂	Sulfur Dioxide
sq mi	square mile(s)
STP	Sewage Treatment Plant
SW/GW	surface water/groundwater
T	transmissivity
111TCE	1,1,1-trichloroethane
112TCE	1,1,2-trichloroethane
TCLEE	tetrachloroethylene
TIC	tentatively identified compounds
TKd	Denver Formation
TRCLE	trichloroethylene
TSP	total suspended particulates
1u	number one upper zone in the Denver Fm
ug/g	micrograms per gram
ug/l	micrograms per liter
UFS	Unconfined Flow System
UNK	unknown
USATHAMA	U.S. Army Toxic and Hazardous Materials Agency
USCS	Unified Soil Classification System
WRI.TOC	
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ACRONYMS AND ABBREVIATIONS (Continued)

UTM	Universal Transverse Mercator
VC	volcaniclastic interval
VCE	clay-rich zone stratigraphically equivalent to VC
VOA	volatile organic aromatics
VOC	volatile organic compounds
VOH	volatile organohalogens
WES	U.S. Army Corps of Engineers Waterways Experiment Station
WRI	Water Remedial Investigation
WY87	Water Year 1987

APPENDIX A
DENVER FM GEOLOGIC DATA

**APPENDIX A.1: DENVER ZONE SANDSTONE TOP AND BASE ELEVATIONS
AND THICKNESS**

DENVER_FM_SANDSTONE_TOP_AND_BASE_ELEVATIONS_AND_THICKNESS

EXPLANATION

The top and base elevations of the sandstones were picked at the top and base of an interval consisting predominantly of sandstone. In some cases, these sandstones contain stringers or lenses of siltstone, claystone, and/or shale. Where these finer grained sediments comprise a significant thickness, they are listed under "shale thickness" in the table. This shale thickness is subtracted from the gross sandstone thickness to obtain the net sandstone thickness.

For well 01046, the thickness of the sandstone in zone 2 was estimated from personal communication with Stollar and Associates, 1988.

In wells where the borehole did not penetrate the base of the sandstone, the base sandstone elevation was estimated.

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
01005	AS	5201.6	5174.6	27.0	0.0	27.0	
01005	AU	5211.6	5204.6	7.0	0.0	7.0	
01008	AL	5181.2	5176.2	5.0	0.0	5.0	
01008	AM	5209.9	5190.7	19.2	0.0	19.2	
01015	AU	5216.5	5206.1	10.4	0.0	10.4	
01017	AM	5182.6	5177.5	5.1	0.0	5.1	
01017	AU	5193.7	5183.1	10.6	0.0	10.6	
01022	AM	5154.5	5147.5	7.0	0.0	7.0	
01022	AU	5171.5	5162.9	8.6	0.0	8.6	
01023	1U	5107.0	5095.0	12.0	0.0	12.0	
01025	AU	5173.9	5166.9	7.0	0.0	7.0	
01026	AL	5152.4	5146.9	5.5	0.0	5.5	
01028	AS	5197.2	5190.2	7.0	0.0	7.0	
01028	AU	5206.1	5202.2	3.9	0.0	3.9	
01029	AL	5156.2	5142.7	13.5	0.0	13.5	
01029	AM	5184.7	5181.7	3.0	0.0	3.0	
01031	AU	5208.1	5206.2	1.9	0.0	1.9	
01032	AM	5184.0	5177.6	6.4	0.0	6.4	
01034	AM	5174.0	5168.6	5.4	0.0	5.4	
01034	AU	5193.5	5192.2	1.3	0.0	1.3	
01035	AL	5162.0	5156.5	5.5	0.0	5.5	
01036	AU	5202.9	5201.6	1.3	0.0	1.3	
01037	AL	5161.9	5160.6	1.3	0.0	1.3	
01037	AM	5172.6	5165.8	6.8	0.0	6.8	
01039	AU	5192.9	5191.4	1.5	0.0	1.5	
01040	AL	5165.0	5157.1	7.9	0.0	7.9	
01040	AM	5173.4	5170.3	3.1	0.0	3.1	
01042	AL	5171.2	5168.8	2.4	0.0	2.4	
01042	AU	5202.2	5201.0	1.2	0.0	1.2	
01043	1	5112.0	5106.8	5.2	0.0	5.2	
01046	2	0.0	0.0	49.0	0.0	49.0	ESTIMATED THICKNESS
01047	1	5093.8	5074.0	19.8	0.0	19.8	
01047	1U	5114.9	5107.6	7.3	0.0	7.3	
01047	AL	5157.8	5156.3	1.5	0.0	1.5	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
01047	AM	5185.6	5182.6	3.0	0.0	3.0	
01047	AU	5192.3	5189.3	3.0	0.0	3.0	
01048	2	5070.0	5045.3	24.7	0.0	24.7	
01050	AS	5203.4	5157.4	46.0	0.0	46.0	
01067	AS	5199.0	5160.1	38.9	0.0	38.9	
01067	AU	5218.0	5208.9	9.1	4.7	4.4	
01068	VC	5283.9	5238.6	45.3	0.0	45.3	
01071	1	5092.6	5078.7	13.9	4.0	9.9	
01071	1U	5129.1	5118.6	10.5	0.0	10.5	
01071	2	5075.1	5070.6	4.5	0.0	4.5	
01071	AL	5174.6	5172.1	2.5	0.0	2.5	
01071	AM	5186.1	5185.1	1.0	0.0	1.0	
01071	AU	5200.5	5195.1	5.4	0.0	5.4	
02004	AS	5208.1	5162.8	45.3	0.0	45.3	
02009	1	5105.7	5103.7	2.0	0.0	2.0	
02010	2	5086.8	5077.9	8.9	0.0	8.9	
02010	3	5072.9	5044.9	28.0	0.0	28.0	
02012	1U	5114.6	5109.6	5.0	0.0	5.0	
02013	2	5063.6	5048.9	14.7	0.0	14.7	
02015	1U	5149.2	5134.2	15.0	0.0	15.0	
02016	2	5091.7	5075.2	16.5	0.0	16.5	
02018	AU	5221.4	5208.7	12.7	6.5	6.2	
02019	1U	5165.0	5159.0	6.0	0.0	6.0	
02019	AL	5187.5	5169.4	18.1	0.0	18.1	
02021	AM	5182.0	5167.4	14.6	0.0	14.6	
02022	1U	5138.3	5125.5	12.8	0.0	12.8	
02022	AL	5154.0	5143.0	11.0	0.0	11.0	
02024	AL	5178.3	5177.2	1.1	0.0	1.1	
02024	AM	5191.1	5186.2	4.9	0.0	4.9	
02027	AL	5153.4	5142.9	10.5	0.0	10.5	
02027	AM	5160.2	5156.6	3.6	0.0	3.6	
02028	1U	5117.4	5103.7	13.7	2.0	11.7	
02030	AL	5177.9	5176.0	1.9	0.0	1.9	
02030	AM	5196.4	5195.0	1.4	0.0	1.4	
02030	AU	5219.6	5208.3	11.3	4.6	11.3	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
02031	1U	5135.5	5128.6	6.9	0.0	6.9	
02032	AL	5170.1	5164.1	6.0	0.0	6.0	
02032	AU	5190.1	5181.9	8.2	3.2	5.0	
02033	1U	5127.2	5102.6	24.6	4.0	20.6	
02035	AL	5180.0	5177.8	2.2	0.0	2.2	
02035	AM	5197.5	5191.9	5.6	0.0	5.6	
02035	AU	5207.0	5202.5	4.5	0.0	4.5	
02038	AM	5204.1	5190.6	13.5	6.0	7.5	
02039	1U	5154.0	5147.0	7.0	0.0	7.0	
02039	AL	5175.9	5159.7	16.2	0.0	16.2	
02041	AL	5179.2	5167.7	11.5	0.0	11.5	
02041	AM	5200.0	5197.0	3.0	0.0	3.0	
02042	1U	5164.0	5143.5	20.5	5.0	15.5	
02043	AU	5216.1	5206.2	9.9	4.0	5.9	
02044	1U	5149.2	5134.2	15.0	0.0	15.0	
02044	AL	5185.2	5176.6	8.6	0.0	8.6	
02045	AL	5195.1	5184.0	11.1	9.9	1.2	
02045	AM	5206.6	5194.1	12.5	4.5	12.5	
02045	AU	5227.1	5217.6	9.5	2.0	7.5	
02046	1U	5154.6	5128.9	25.7	0.0	25.7	
02047	AS	5218.7	5174.7	44.0	0.0	44.0	
02048	1U	5138.7	5136.0	2.7	0.0	2.7	
03003	3	5058.0	5051.0	7.0	0.0	7.0	
03004	4	5027.0	5017.0	10.0	1.0	9.0	
03006	1U	5136.0	5123.0	13.0	0.0	13.0	
03006	2	5085.0	5076.0	9.0	8.0	1.0	
03007	7	5008.0	5005.0	3.0	0.0	3.0	
03012	1	5097.4	5095.4	2.0	0.0	2.0	
03012	1U	5161.4	5135.4	26.0	0.0	26.0	
03012	2	5085.4	5080.4	5.0	0.0	5.0	
04008	3	5111.0	5095.0	16.0	4.0	12.0	
04009	5	5044.0	5039.0	5.0	0.0	5.0	
04012	2	5106.0	5103.0	3.0	0.0	3.0	
04012	3	5094.0	5083.0	11.0	0.0	11.0	
04012	5	5040.0	5036.0	4.0	0.0	4.0	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
04012	6	5032.0	5009.0	23.0	0.0	23.0	
05003	B	5225.0	5222.0	3.0	0.0	3.0	
06004	AL	5163.0	5153.0	10.0	0.0	10.0	
08004	AL	5136.0	5082.0	54.0	0.0	54.0	
08004	B	5184.0	5182.0	2.0	0.0	2.0	
09003	2	5104.0	5081.0	23.0	0.0	23.0	
09004	4	5028.0	5018.0	10.0	0.0	10.0	
100	2	5124.0	5118.0	6.0	0.0	6.0	
1000	2	5120.0	5110.0	10.0	0.0	10.0	
1000	3	5093.0	5084.0	9.0	0.0	9.0	
1001	2	5120.0	5114.0	6.0	0.0	6.0	
1001	3	5093.0	5083.0	10.0	0.0	10.0	
1002	2	5119.0	5113.0	6.0	0.0	6.0	
1003	3	5103.0	5080.0	23.0	0.0	23.0	
1004	3	5103.0	5080.0	23.0	0.0	23.0	
1005	3	5098.0	5088.0	10.0	0.0	10.0	
1006	2	5125.0	5106.0	19.0	0.0	19.0	
1006	3	5101.0	5075.0	26.0	0.0	26.0	
1007	2	5106.0	5103.0	3.0	0.0	3.0	
1007	3	5092.0	5074.0	18.0	0.0	18.0	
1008	3	5094.0	5084.0	10.0	0.0	10.0	
1009	2	5106.0	5102.0	4.0	0.0	4.0	
1009	3	5092.0	5086.0	6.0	0.0	6.0	
1011	2	5126.0	5095.0	31.0	15.0	16.0	
1012	2	5107.0	5105.0	2.0	0.0	2.0	
1012	3	5094.0	5087.0	7.0	0.0	7.0	
1014	2	5123.0	5111.0	12.0	0.0	12.0	
1014	3	5094.0	5089.0	5.0	0.0	5.0	
1015	2	5125.0	5102.0	23.0	0.0	23.0	
1015	3	5098.0	5067.0	31.0	0.0	31.0	
1016	2	5128.0	5100.0	28.0	0.0	28.0	
11003	B	5179.9	5170.3	9.6	0.0	9.6	
11004	AU	5152.6	5147.2	5.4	0.0	5.4	
1105	3	5088.0	5071.0	17.0	0.0	17.0	
1	1	5162.0	5155.0	7.0	0.0	7.0	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
12004	B	5205.7	5198.7	7.0	2.0	5.0	
19015	2	5139.0	5118.0	21.0	6.0	15.0	
19015	3	5110.0	5096.0	14.0	0.0	14.0	
19016	4	5070.0	5052.0	18.0	0.0	18.0	
19017	1	5148.0	5140.5	7.5	0.0	7.5	
19017	3	5089.0	5087.0	2.0	0.0	2.0	
19017	4	5075.0	5059.0	16.0	0.0	16.0	
19018	2	5106.0	5102.0	4.0	0.0	4.0	
20001	1	5150.0	5129.0	21.0	0.0	21.0	
2003	AU	5205.0	5202.2	2.8	0.0	2.8	
22002	4	5054.0	5036.0	18.0	0.0	18.0	
22002	5	5018.0	5001.0	17.0	0.0	17.0	
22004	3	5108.0	5097.0	11.0	0.0	11.0	
22009	4	5066.0	5063.0	3.0	0.0	3.0	
22023	4	5051.0	5046.0	5.0	0.0	5.0	
22027	3	5095.0	5081.0	14.0	0.0	14.0	
22028	4	5055.0	5036.5	18.5	0.0	18.5	
22030	3	5088.0	5072.0	16.0	0.0	16.0	
22030	4	5045.0	5026.0	19.0	0.0	19.0	
22031	5	5020.0	5006.0	14.0	0.0	14.0	
22051	3	5085.0	5075.0	10.0	0.0	10.0	
22054	2	5109.0	5104.0	5.0	0.0	5.0	
22060	3	5107.0	5097.0	10.0	0.0	10.0	
22313	3	5084.0	5080.0	4.0	0.0	4.0	
23006	1	5141.0	5136.0	5.0	0.0	5.0	
23007	1	5138.5	5133.0	5.5	0.0	5.5	
23016	1	5133.5	5129.5	4.0	0.0	4.0	
23054	1	5139.0	5129.0	10.0	0.0	10.0	
23056	1	5133.0	5125.0	8.0	0.0	8.0	
23161	2	5130.0	5100.0	30.0	4.0	26.0	
23161	3	5088.0	5078.0	10.0	0.0	10.0	
23163	2	5105.0	5095.0	10.0	0.0	10.0	
23164	3	5088.0	5072.0	16.0	0.0	16.0	
23167	2	5122.0	5096.0	26.0	0.0	26.0	
23168	3	5080.0	5071.0	9.0	0.0	9.0	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
23169	4	5060.0	5038.0	22.0	0.0	22.0	
23170	2	5116.0	5094.0	22.0	8.0	14.0	
23170	3	5092.0	5075.0	17.0	0.0	17.0	
23171	2	5125.0	5100.0	25.0	15.0	10.0	
23172	2	5122.0	5100.0	22.0	0.0	22.0	
23177	2	5114.0	5092.0	22.0	0.0	22.0	
23181	2	5129.0	5088.0	41.0	0.0	41.0	
23183	3	5073.0	5067.0	6.0	0.0	6.0	
23184	4	5064.0	5052.0	12.0	0.0	12.0	
23186	2	5108.0	5094.0	14.0	0.0	14.0	
23189	2	5125.0	5115.0	10.0	0.0	10.0	
23192	2	5128.0	5100.4	27.6	25.6	2.0	
23192	3	5083.1	5077.4	5.7	0.0	5.7	
23193	4	5058.0	5022.0	36.0	30.5	5.5	
232	1U	5169.5	5167.0	2.5	0.0	2.5	
23200	2	5118.0	5095.0	23.0	0.0	23.0	
23201	3	5075.0	5065.0	10.0	0.0	10.0	
23208	2	5129.0	5111.0	18.0	0.0	18.0	
23209	2	5118.0	5083.0	35.0	8.0	27.0	
23209	3	5082.0	5060.0	22.0	4.0	18.0	
23209	4	5054.0	5028.0	26.0	6.0	20.0	
23210	5	5022.4	5010.4	12.0	0.0	12.0	
23210	6	5000.6	4978.4	22.2	2.0	20.2	
23210	8	4956.4	4929.4	27.0	0.0	27.0	
23218	2	5117.0	5112.0	5.0	0.0	5.0	
23219	3	5085.0	5078.0	7.0	0.0	7.0	
23219	4	5047.0	5038.0	9.0	0.0	9.0	
23221	1	5134.0	5130.0	4.0	0.0	4.0	
23222	2	5125.0	5090.0	35.0	0.0	35.0	
23224	3	5085.0	5062.0	23.0	0.0	23.0	
23228	2	5111.0	5095.0	16.0	4.0	12.0	
23229	2	5139.5	5110.0	29.5	20.0	9.5	
23230	3	5084.0	5068.0	16.0	11.0	5.0	
23230	4	5042.0	5021.0	21.0	6.0	15.0	
23233	2	5118.0	5094.0	24.0	3.0	21.0	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
23234	3	5082.0	5055.0	27.0	12.0	15.0	
23234	4	5048.0	5030.0	18.0	4.0	14.0	
23235	2	5122.0	5105.0	17.0	8.0	9.0	
23235	3	5090.0	5078.0	12.0	0.0	12.0	
23236	2	5122.0	5097.0	25.0	0.0	25.0	
23236	3	5096.0	5086.0	10.0	0.0	10.0	
23236	4	5062.0	5030.0	32.0	0.0	32.0	
233	1	5163.5	5157.5	6.0	0.0	6.0	
23336	2	5118.0	5095.0	23.0	0.0	23.0	
23336	3	5068.0	5058.0	10.0	0.0	10.0	
23337	2	5118.0	5096.0	22.0	0.0	22.0	
23339	2	5113.0	5096.0	17.0	0.0	17.0	
23339	3	5081.0	5070.0	11.0	0.0	11.0	
23340	2	5120.0	5095.0	25.0	9.0	16.0	
23341	2	5107.0	5103.0	4.0	0.0	4.0	
23341	3	5090.0	5082.0	8.0	0.0	8.0	
23342	2	5122.0	5102.0	20.0	5.0	15.0	
23342	3	5084.0	5076.0	8.0	0.0	8.0	
23342	4	5061.0	5051.0	10.0	0.0	10.0	
23401	2	5121.0	5098.0	23.0	8.0	15.0	
23401	3	5094.0	5085.0	9.0	0.0	9.0	
23401	4	5062.0	5030.0	32.0	0.0	32.0	
23401	5	5025.0	5017.0	8.0	0.0	8.0	
23407	2	5122.0	5114.0	8.0	0.0	8.0	
23407	3	5089.0	5078.0	11.0	0.0	11.0	
23407	4	5063.0	5023.0	40.0	9.0	31.0	
23504	1	5139.0	5128.0	11.0	0.0	11.0	
24031	2	5120.0	5111.0	9.0	0.0	9.0	
24035	3	5098.0	5088.0	10.0	0.0	10.0	
24041	2	5122.0	5112.0	10.0	0.0	10.0	
24080	1	5170.0	5150.0	20.0	0.0	20.0	
24082	1	5162.0	5148.0	14.0	0.0	14.0	
24083	1	5156.0	5142.0	14.0	0.0	14.0	
24086	1	5158.0	5135.0	23.0	0.0	23.0	
24087	1	5148.0	5136.0	12.0	0.0	12.0	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
24108	1	5156.0	5152.0	4.0	0.0	4.0	
24109	2	5152.0	5142.0	10.0	0.0	10.0	
24120	2	5138.0	5112.0	26.0	17.0	9.0	
24120	3	5106.0	5096.0	10.0	0.0	10.0	
24123	1	5158.0	5154.0	4.0	0.0	4.0	
24124	1	5180.0	5153.0	27.0	0.0	27.0	
24125	1	5168.0	5145.0	23.0	10.0	13.0	
24131	2	5108.0	5104.0	4.0	0.0	4.0	
24132	3	5097.0	5074.0	23.0	6.0	17.0	
24133	2	5107.0	5097.0	10.0	2.0	8.0	
24134	3	5090.0	5068.0	22.0	6.0	16.0	
24138	2	5108.0	5093.0	15.0	6.0	9.0	
24139	3	5091.0	5060.0	31.0	7.0	24.0	
24141	2	5118.0	5090.0	28.0	0.0	28.0	
24142	3	5090.0	5064.0	26.0	0.0	26.0	
24143	4	5064.0	5048.0	16.0	8.0	8.0	
24145	2	5122.0	5110.0	12.0	0.0	12.0	
24146	3	5095.0	5084.0	11.0	0.0	11.0	
24147	2	5127.0	5113.0	14.0	0.0	14.0	
24147	3	5099.0	5087.0	12.0	0.0	12.0	
24154	3	5106.0	5080.0	26.0	0.0	26.0	
24154	4	5069.0	5061.0	8.0	0.0	8.0	
24167	2	5105.0	5083.0	22.0	0.0	22.0	
24168	3	5090.0	5060.0	30.0	6.0	24.0	
24171	2	5123.0	5102.0	21.0	12.0	9.0	
24171	3	5100.0	5070.0	30.0	17.0	13.0	
24172	4	5040.0	5035.0	5.0	0.0	5.0	
24174	3	5100.0	5082.0	18.0	0.0	18.0	
24175	4	5063.0	5043.0	20.0	0.0	20.0	
24196	2	5117.0	5105.0	12.0	0.0	12.0	
24196	3	5096.0	5070.0	26.0	0.0	26.0	
24343	2	5120.0	5096.0	24.0	5.0	19.0	
24344	2	5104.0	5094.0	10.0	3.0	7.0	
24346	2	5108.0	5098.0	10.0	0.0	10.0	
24347	3	5095.0	5082.0	13.0	0.0	13.0	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
24347	4	5061.0	5044.0	17.0	0.0	17.0	
24348	3	5090.0	5081.0	9.0	0.0	9.0	
24348	4	5073.0	5048.0	25.0	0.0	25.0	
24349	3	5102.0	5077.0	25.0	0.0	25.0	
24350	3	5104.0	5082.0	22.0	0.0	22.0	
24351	3	5101.0	5080.0	21.0	0.0	21.0	
24352	3	5100.0	5084.0	16.0	0.0	16.0	
24352	4	5066.0	5044.0	22.0	10.0	12.0	
24353	3	5101.0	5082.0	19.0	0.0	19.0	
24354	2	5112.0	5107.0	5.0	0.0	5.0	
24354	3	5103.0	5082.0	21.0	0.0	21.0	
25004	AS	5244.5	5201.0	43.5	0.0	43.5	
25006	1	5155.0	5139.0	16.0	0.0	16.0	
25008	AS	5202.0	5177.0	25.0	0.0	25.0	
25009	1	5171.0	5132.0	39.0	0.0	39.0	
25010	2	5111.0	5097.0	14.0	0.0	14.0	
25012	1	5132.6	5124.8	7.8	0.0	7.8	
25012	1U	5177.0	5150.0	27.0	0.0	27.0	
25013	2	5108.2	5082.6	25.6	0.0	25.6	
25014	3	5069.6	5053.1	16.5	0.0	16.5	
25015	1	5158.0	5156.0	2.0	0.0	2.0	
25016	2	5138.0	5120.0	18.0	9.0	9.0	
25018	1	5151.0	5146.0	5.0	0.0	5.0	
25019	2	5115.0	5108.0	7.0	0.0	7.0	
25020	4	5070.0	5043.0	27.0	0.0	27.0	
25021	1	5138.6	5135.6	3.0	0.0	3.0	
25021	1U	5178.0	5173.5	4.5	0.0	4.5	
25021	2	5133.5	5111.0	22.5	0.0	22.5	
25021	AL	5202.0	5198.0	4.0	0.0	4.0	
25023	AS	5208.0	5199.0	9.0	0.0	9.0	
25024	1U	5174.0	5169.9	4.1	1.0	3.1	
25025	AM	5194.1	5187.3	6.8	5.0	1.8	
25025	AS	5219.6	5203.1	16.5	0.0	16.5	
25026	1U	5194.1	5172.0	22.1	9.3	13.1	
25029	1	5160.0	5131.0	29.0	0.0	29.0	

ESTIMATED BASE

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS		SHALE		NET		COMMENTS
				SANDSTONE THICKNESS	SANDSTONE THICKNESS	THICKNESS	THICKNESS	SANDSTONE THICKNESS	SANDSTONE THICKNESS	
25031	1	5177.0	5137.5	39.5		0.0		39.5		
25032	AU	5245.0	5229.0	16.0		0.0		16.0		
25033	AS	5223.0	5180.0	43.0		3.4		43.0		
25034	1	5170.0	5132.0	38.0		0.0		38.0		
25036	1U	5183.0	5157.0	26.0		10.0		16.0		
25036	AL	5213.0	5204.0	9.0		0.0		9.0		
25036	VC	5258.0	5231.0	27.0		0.0		27.0		
25037	1	5150.0	5137.0	13.0		0.0		13.0		
25037	2	5137.0	5116.0	21.0		0.0		21.0		
25040	1	5141.7	5126.4	15.3		0.0		15.3		
26002	1	5150.0	5143.0	7.0		0.0		7.0		
26005	1	5155.0	5148.0	7.0		0.0		7.0		
26006	1	5147.0	5143.0	4.0		0.0		4.0		
26009	1	5144.0	5137.0	7.0		0.0		7.0		
26010	1	5162.0	5155.0	7.0		0.0		7.0		
26012	1	5180.0	5139.0	41.0		0.0		41.0		
26014	2	5120.0	5112.0	8.0		0.0		8.0		
26020	1	5134.0	5130.0	4.0		0.0		4.0		
26021	1	5138.5	5127.0	11.5		0.0		11.5		
26027	1	5163.0	5147.0	16.0		0.0		16.0		
26028	1	5164.0	5144.0	20.0		0.0		20.0		
26029	1	5164.0	5141.5	22.5		0.0		22.5		
26030	1	5157.0	5132.0	25.0		0.0		25.0		
26031	1	5161.0	5131.0	30.0		0.0		30.0		
26042	2	5133.0	5113.5	19.5		0.0		19.5		
26043	2	5130.5	5115.0	15.5		0.0		15.5		
26044	1	5146.0	5141.0	5.0		0.0		5.0		
26048	1	5145.0	5134.0	11.0		4.0		7.0		
26051	1	5180.0	5139.0	41.0		0.0		41.0		
26052	1	5156.0	5130.0	26.0		0.0		26.0		
26053	1	5158.0	5138.0	20.0		0.0		20.0		
26055	1	5128.0	5124.0	4.0		0.0		4.0		
26055	1U	5179.0	5167.0	12.0		0.0		12.0		
26056	1U	5185.0	5180.0	5.0		0.0		5.0		
26060	1	5148.0	5138.0	10.0		0.0		10.0		

ESTIMATED BASE

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZCNE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS	ESTIMATED BASE
26060	2	5129.0	5095.0	34.0	8.0	26.0		
26061	2	5132.2	5102.2	30.0	0.0	30.0		
26066	1	5152.0	5142.0	10.0	0.0	10.0		
26067	2	5124.0	5092.0	32.0	0.0	32.0		
26069	1	5157.0	5149.0	8.0	0.0	8.0		
26069	2	5143.0	5115.0	28.0	0.0	28.0		
26071	1	5160.0	5145.0	15.0	0.0	15.0		
26072	2	5116.0	5095.0	21.0	0.0	21.0		
26075	1	5145.0	5122.0	23.0	0.0	23.0		
26077	2	5124.0	5094.0	30.0	0.0	30.0		
26079	2	5131.0	5116.0	15.0	8.0	7.0		
26080	3	5106.0	5091.0	15.0	0.0	15.0		
26082	2	5120.0	5095.0	25.0	0.0	25.0		
26084	1	5148.0	5144.0	4.0	0.0	4.0		
26084	2	5124.0	5088.0	36.0	0.0	36.0		
26086	1	5155.0	5128.0	27.0	0.0	27.0		
26086	1U	5177.0	5166.0	11.0	0.0	11.0		
26087	1	5134.0	5124.0	10.0	0.0	10.0		
26090	2	5123.0	5103.0	20.0	0.0	20.0		
26092	1	5156.0	5140.0	16.0	4.0	12.0		
26092	2	5135.0	5101.0	34.0	0.0	34.0		
26094	2	5124.0	5092.0	32.0	0.0	32.0		
26096	1U	5173.0	5155.0	18.0	0.0	18.0		
26097	1	5163.0	5147.0	16.0	0.0	16.0		
26098	1U	5185.0	5182.0	3.0	0.0	3.0		
26098	AM	5233.0	5218.5	14.5	0.0	14.5		
26119	1	5167.0	5146.0	21.0	0.0	21.0		
26123	1	5178.0	5158.0	20.0	0.0	20.0		
26126	1	5135.0	5131.0	4.0	0.0	4.0		
26126	2	5113.0	5112.0	1.0	0.0	1.0		
26128	1	5162.5	5131.0	31.5	10.0	21.5		
26129	2	5128.5	5105.0	23.5	0.0	23.5		
26131	1	5165.5	5141.0	24.5	0.0	24.5		
26131	2	5129.0	5107.0	22.0	0.0	22.0		
26132	1	5146.0	5132.0	14.0	0.0	14.0		

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
26132	2	5132.0	5103.0	29.0	0.0	29.0	
26134	2	5122.0	5102.0	20.0	0.0	20.0	
26135	3	5092.0	5081.0	11.0	0.0	11.0	
26135	4	5058.0	5039.0	19.0	0.0	19.0	
26136	2	5116.0	5105.0	11.0	0.0	11.0	
26136	3	5078.0	5064.0	14.0	4.0	10.0	
26137	4	5034.0	5009.0	25.0	0.0	25.0	
26137	5	4995.0	4994.0	1.0	0.0	1.0	
26137	6	4974.0	4959.0	15.0	7.0	8.0	
26138	3	5093.0	5073.0	20.0	0.0	20.0	
26139	4	5028.0	5025.0	3.0	0.0	3.0	
26140	1	5167.0	5145.0	22.0	0.0	22.0	
26141	2	5121.5	5095.0	26.5	0.0	26.5	
26142	3	5057.0	5055.0	2.0	0.0	2.0	
26143	1	5174.0	5120.0	54.0	0.0	54.0	
26146	2	5118.0	5095.0	23.0	11.0	12.0	
26147	3	5084.0	5065.0	19.0	0.0	19.0	
26149	2	5138.8	5110.0	28.8	0.0	28.8	
26149	3	5096.0	5071.0	25.0	10.0	15.0	
26150	1	5145.0	5132.0	13.0	0.0	13.0	
26150	2	5132.0	5110.0	22.0	0.0	22.0	
26150	3	5099.2	5088.4	10.8	0.0	10.8	
26150	1U	5191.0	5181.0	10.0	0.0	10.0	
26151	1	5148.8	5132.8	16.0	0.0	16.0	
26151	2	5115.3	5091.6	23.7	0.0	23.7	
26151	3	5081.8	5073.9	7.9	0.0	7.9	
26153	2	5115.0	5112.0	3.0	0.0	3.0	
26153	3	5093.0	5077.0	16.0	10.0	6.0	
26153	4	5069.0	5053.0	16.0	2.0	14.0	
26156	1	5158.2	5145.7	12.5	0.0	12.5	
26156	2	5127.2	5101.3	25.9	8.0	17.9	
26156	3	5065.2	5058.7	6.5	0.0	6.5	
270	2	5116.0	5105.0	11.0	0.0	11.0	
27001	4	5079.0	5074.0	5.0	0.0	5.0	
27005	3	5085.0	5077.0	8.0	0.0	8.0	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
27006	3	5086.0	5084.0	2.0	0.0	2.0	
27007	3	5082.5	5075.0	7.5	0.0	7.5	
27008	3	5083.0	5077.5	5.5	0.0	5.5	
27020	1	5148.0	5146.0	2.0	0.0	2.0	
27021	1	5146.0	5143.0	3.0	0.0	3.0	
27024	2	5120.0	5113.0	7.0	0.0	7.0	
27029	2	5120.0	5112.0	8.0	0.0	8.0	
27033	2	5118.0	5113.0	5.0	0.0	5.0	
27041	2	5113.0	5107.0	6.0	0.0	6.0	
27042	4	5072.5	5069.0	3.5	0.0	3.5	
27050	2	5125.0	5109.0	16.0	0.0	16.0	
27051	3	5089.0	5070.0	19.0	0.0	19.0	
27052	3	5090.0	5085.0	5.0	0.0	5.0	
27054	4	5061.0	5047.0	14.0	0.0	14.0	
27055	5	5026.0	5015.0	11.0	0.0	11.0	
27057	3	5081.0	5065.0	16.0	10.0	6.0	
27058	4	5048.0	5041.0	7.0	0.0	7.0	
27060	2	5107.0	5084.0	23.0	3.0	23.0	
27061	3	5067.0	5064.0	3.0	0.0	3.0	
27061	5	5029.0	5014.0	15.0	0.0	15.0	
27063	4	5068.0	5063.0	5.0	0.0	5.0	
27082	2	5109.0	5100.0	9.0	0.0	9.0	
274	2	5113.5	5106.0	7.5	0.0	7.5	
277	2	5115.0	5111.5	3.5	0.0	3.5	
279	2	5113.5	5105.0	8.5	0.0	8.5	
28025	5	5042.0	5026.0	16.0	0.0	16.0	
28026	6	5024.0	5018.0	6.0	3.0	3.0	
28028	4	5084.0	5073.0	11.0	0.0	11.0	
28029	5	5057.0	5038.0	19.0	2.0	17.0	
281	3	5111.0	5106.5	4.5	0.0	4.5	
283	2	5114.0	5110.0	4.0	0.0	4.0	
29002	AU	5232.6	5206.9	25.7	0.0	25.7	
29003	1U	5146.6	5135.0	11.6	0.0	11.6	
30004	AL	5189.8	5185.8	4.0	0.0	4.0	
30005	1U	5164.1	5151.6	12.5	0.0	12.5	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
30006	1U	5176.7	5174.2	2.5	0.0	2.5	
30007	1	5140.7	5130.8	9.9	0.0	9.9	
30008	3	5068.4	5054.9	13.5	0.0	13.5	
30010	1	5157.9	5110.1	47.8	0.0	47.8	
30011	2	5078.9	5074.1	4.8	0.0	4.8	
31002	VC	5244.2	5220.7	23.5	0.0	23.5	
31004	AL	5175.3	5156.3	19.0	0.0	19.0	
31007	AM	5173.3	5167.5	5.8	0.0	5.8	
31008	1	5111.4	5092.2	19.2	0.0	19.2	
31010	AU	5199.4	5188.0	11.4	0.0	11.4	
31011	AL	5175.9	5154.2	21.7	0.0	21.7	
32002	AL	5154.4	5146.7	7.7	0.0	7.7	
32002	VC	5252.1	5184.6	67.5	0.0	67.5	
32003	2	5107.4	5058.4	49.0	0.0	49.0	
33026	7	5066.0	5047.0	19.0	0.0	19.0	
33027	8	5034.0	5027.0	7.0	0.0	7.0	
33029	7	5020.0	5016.0	4.0	0.0	4.0	
33029	8	4990.0	4980.0	10.0	3.0	7.0	
33031	6	5007.0	4999.0	8.0	0.0	8.0	
33032	7	4988.0	4970.0	18.0	10.0	8.0	
33034	4	5073.0	5063.0	10.0	0.0	10.0	
33035	5	5050.0	5046.0	4.0	0.0	4.0	
34001	2	5125.8	5117.8	8.0	0.0	8.0	
34003	3	5065.0	5059.0	6.0	0.0	6.0	
34004	4	5044.9	5037.1	7.8	0.0	7.8	
34006	2	5094.0	5085.0	9.0	3.5	5.5	
34007	3	5073.0	5069.0	4.0	0.0	4.0	
34009	3	5059.6	5051.1	8.5	0.0	8.5	
34010	4	5037.6	5029.3	8.3	0.0	8.3	
34011	3	5082.7	5072.4	10.3	0.0	10.3	
34011	4	5058.2	5048.2	10.0	4.7	5.3	
34012	1	5131.3	5112.8	18.5	0.0	18.5	
34012	1U	5162.3	5159.3	3.0	0.0	3.0	
34013	2	5107.3	5077.3	30.0	0.0	30.0	
35001	1U	5165.0	5153.0	12.0	0.0	12.0	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
35004	AL	5178.0	5172.5	5.5	0.0	5.5	
35005	1U	5168.0	5148.0	20.0	0.0	20.0	
35006	1U	5159.0	5133.0	26.0	0.0	26.0	
35009	1U	5175.0	5156.0	19.0	0.0	19.0	
35009	AL	5197.0	5181.0	16.0	0.0	16.0	
35010	1	5148.0	5142.0	6.0	0.0	6.0	
35012	1	5145.0	5129.3	15.7	0.0	15.7	
35012	1U	5163.0	5156.0	7.0	0.0	7.0	
35015	AU	5213.4	5212.0	1.4	0.0	1.4	
35016	1U	5175.0	5156.0	19.0	0.0	19.0	
35017	1	5128.0	5122.0	6.0	0.0	6.0	
35018	1U	5172.0	5136.0	36.0	0.0	36.0	
35019	2	5127.0	5115.0	12.0	0.0	12.0	
35021	1U	5163.4	5143.8	19.6	6.0	13.6	
35021	AL	5192.5	5181.9	10.6	0.0	10.6	
35024	AS	5215.8	5178.0	37.8	0.0	37.8	
35027	AL	5173.6	5166.9	6.7	0.0	6.7	
35027	AU	5211.1	5204.6	6.5	0.0	6.5	
35028	1U	5147.0	5142.0	5.0	0.0	5.0	
35030	AS	5210.4	5199.9	10.5	0.0	10.5	
35032	1	5143.0	5121.0	22.0	0.0	22.0	
35032	1U	5161.0	5143.0	18.0	0.0	18.0	
35033	2	5097.0	5091.0	6.0	0.0	6.0	
35035	1U	5188.0	5159.0	29.0	2.0	27.0	
35036	1	5143.0	5123.0	20.0	0.0	20.0	
35038	1	5148.5	5138.5	10.0	0.0	10.0	
35039	2	5128.5	5090.0	38.5	0.0	38.5	
35041	1	5137.0	5124.0	13.0	0.0	13.0	
35041	2	5110.0	5089.0	21.0	0.0	21.0	
35042	2	5105.0	5084.0	21.0	0.0	21.0	
35045	1U	5169.0	5157.0	12.0	0.0	12.0	
35049	1U	5168.4	5152.4	16.0	4.0	12.0	
35049	AL	5173.4	5172.4	1.0	0.0	1.0	
35051	1U	5173.0	5154.0	19.0	0.0	19.0	
35053	AM	5200.3	5188.3	12.0	4.0	3.0	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
35053	AU	5212.3	5205.3	7.0	0.0	7.0	
35054	AL	5195.9	5177.6	18.3	2.9	15.4	
35055	AL	5184.6	5182.2	2.4	0.0	2.0	
35055	AU	5212.9	5205.8	6.1	0.0	6.1	
35055	B	5250.4	5231.4	19.0	0.0	19.0	
35056	1U	5151.0	5127.0	24.0	0.0	24.0	
35059	1U	5162.0	5148.0	14.0	0.0	14.0	
35060	2	5128.0	5121.0	7.0	2.0	5.0	
35062	AL	5179.3	5166.5	12.8	4.3	8.5	
35063	1U	5152.0	5131.0	21.0	0.0	21.0	
35066	AL	5191.0	5174.3	16.7	0.0	16.7	
35067	1U	5169.0	5153.5	15.5	2.1	13.4	
35068	1	5136.0	5115.0	21.0	0.0	21.0	
35068	2	5115.0	5097.0	18.0	0.0	18.0	
35068	3	5093.0	5077.0	16.0	0.0	16.0	
35070	1U	5156.3	5153.2	3.1	0.0	3.1	
35071	1U	5135.7	5114.2	21.5	14.3	7.2	
35071	AS	5209.6	5181.0	28.6	0.0	28.6	
35072	1	5102.3	5093.0	9.3	0.0	9.3	
35073	AS	5209.0	5181.9	27.1	6.0	21.1	
35074	AL	5175.9	5170.9	5.0	0.0	5.0	
35078	1	5125.0	5120.8	4.2	0.0	4.2	
35078	1U	5170.0	5156.5	13.5	0.0	13.5	
35078	2	5108.0	5100.2	7.8	0.0	7.8	
35081	1	5136.7	5133.7	3.0	0.0	3.0	
35081	1U	5170.7	5161.4	9.3	0.0	9.3	
35081	2	5122.7	5101.0	21.7	0.0	21.7	
35082	1	5112.0	5106.0	6.0	0.0	6.0	
35082	1U	5147.0	5136.0	11.0	0.0	11.0	
35082	2	5097.7	5091.0	6.7	0.0	6.7	
35082	3	5077.1	5044.0	33.1	0.0	33.1	
35082	AL	5184.0	5182.0	2.0	0.0	2.0	
35082	AM	5208.0	5200.0	8.0	0.0	8.0	
35082	AU	5226.0	5224.0	2.0	0.0	2.0	
35088	1	5119.0	5108.3	10.7	0.0	10.7	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS		NET	
				SANDSTONE THICKNESS	SANDSTONE THICKNESS	SANDSTONE THICKNESS	COMMENTS
35088	1U	5166.5	5147.3	19.2	0.0	19.2	
35089	2	5091.5	5083.0	8.5	0.0	8.5	
35089	3	5077.5	5046.5	31.0	0.0	31.0	
36002	AL	5200.5	5197.0	3.5	0.0	3.5	
36003	AS	5217.8	5211.8	6.0	0.0	6.0	
36004	AS	5221.6	5218.7	2.9	0.0	2.9	
36007	AS	5220.3	5214.8	5.5	0.0	5.5	
36008	AS	5219.2	5202.9	16.3	0.0	16.3	
36009	AS	5214.9	5210.1	4.8	0.0	4.8	
36010	AS	5210.5	5201.3	9.2	0.0	9.2	
36011	AS	5210.9	5201.8	9.1	0.0	9.1	
36012	AS	5213.6	5210.5	3.1	0.0	3.1	
36020	AM	5222.9	5206.9	16.0	0.0	16.0	
36024	AL	5205.5	5198.7	6.8	0.0	6.8	
36025	AS	5210.6	5204.4	6.2	0.0	6.2	
36026	AS	5213.6	5203.6	10.0	0.0	10.0	
36027	AM	5216.7	5206.7	10.0	0.0	10.0	
36029	AS	5216.6	5210.8	5.8	0.0	5.8	
36033	AS	5222.0	5207.0	15.0	0.0	15.0	
36034	AS	5223.0	5209.0	14.0	0.0	14.0	
36036	AS	5218.9	5191.5	27.4	0.0	27.4	
36037	AS	5216.8	5185.5	31.3	0.0	31.3	
36038	AS	5214.1	5181.1	33.0	0.0	33.0	
36039	AS	5209.1	5183.9	25.2	0.0	25.2	
36043	AM	5196.3	5190.0	6.3	0.0	6.3	
36044	AS	5221.2	5180.3	40.9	0.0	40.9	
36061	AL	5182.3	5182.1	0.2	0.0	0.2	
36061	AM	5199.9	5191.1	8.8	0.0	8.8	
36061	AU	5209.8	5209.6	0.2	0.0	0.2	
36062	AL	5174.8	5154.9	19.6	9.5	10.1	
36063	AL	5176.8	5159.0	17.8	7.7	10.1	
36066	1U	5146.7	5141.3	5.4	0.0	5.4	
36066	AL	5169.9	5156.3	13.6	0.0	13.6	
36066	AU	5216.8	5206.4	10.4	0.0	10.4	
36071	AM	5202.5	5193.0	9.5	0.0	9.5	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
36072	AL	5184.8	5170.7	14.1	0.0	14.1	
36076	AU	5223.6	5205.4	18.2	0.0	18.2	
36078	AS	5214.0	5208.0	6.0	0.0	6.0	
36079	1	5142.0	5132.0	10.0	0.0	10.0	
36079	1U	5163.0	5158.0	5.0	0.0	5.0	
36081	1U	5145.0	5140.0	5.0	0.0	5.0	
36081	AL	5181.7	5166.9	14.8	4.8	10.0	
36104	AM	5196.5	5176.9	22.6	13.2	9.4	
36105	AL	5169.9	5162.2	7.7	0.0	7.7	
36105	AM	5186.8	5169.9	16.9	0.0	16.9	
36105	AU	5209.2	5201.7	7.5	0.0	7.5	
36110	AS	5196.6	5193.5	3.1	0.0	3.1	
36113	AL	5168.0	5167.5	0.5	0.0	0.5	
36113	AM	5201.0	5198.0	3.0	0.0	3.0	
36113	AS	5207.3	5206.3	1.0	0.0	1.0	
36114	1	5146.0	5126.0	20.0	0.0	20.0	
36114	2	5126.0	5100.0	26.0	0.0	26.0	
36116	AU	5257.8	5244.8	13.0	0.0	13.0	
36117	AM	5224.3	5209.8	14.5	0.0	14.5	
36118	AU	5209.0	5201.0	8.0	0.0	8.0	
36119	AM	5176.9	5158.6	18.3	0.0	18.3	
36121	AM	5180.6	5174.8	5.8	0.0	5.8	
36122	AM	5158.6	5151.9	6.7	0.0	6.7	
36147	1U	5162.6	5161.4	1.2	0.0	1.2	
36147	AL	5212.3	5204.9	7.4	0.0	7.4	
36147	AM	5219.0	5216.5	2.5	4.2	9.9	
36147	AU	5224.2	5222.7	1.5	0.0	1.5	
36148	2	5110.0	5090.0	20.0	0.0	20.0	TOP/BASE ARE APPROX.
36148	3	5090.0	5074.0	16.0	0.0	16.0	TOP/BASE ARE APPROX.
36149	1U	5175.0	5155.0	20.0	2.6	17.4	
36150	1	5144.0	5110.0	34.0	0.0	34.0	TOP/BASE ARE APPROX.
36150	AS	5223.6	5204.6	19.0	0.0	19.0	
36154	1U	5126.7	5116.3	10.4	0.0	10.4	
36155	AL	5160.1	5156.0	4.1	0.0	4.1	
36155	B	5243.3	5231.3	12.0	0.0	12.0	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
36156	1U	5125.0	5117.5	7.5	0.0	7.5	
36156	AL	5155.0	5153.0	2.0	0.0	2.0	
36156	AM	5199.5	5171.2	28.3	0.0	28.3	
36169	AM	5169.0	5165.0	4.0	0.0	4.0	
36170	1	5114.0	5095.0	19.0	0.0	19.0	
36170	1U	5137.0	5134.0	3.0	0.0	3.0	
36170	2	5095.0	5073.0	22.0	0.0	22.0	
36170	AL	5158.0	5153.0	5.0	0.0	5.0	
36179	1	5141.0	5118.0	23.0	0.0	23.0	
36179	1U	5163.0	5152.0	11.0	0.0	11.0	
36179	2	5118.0	5090.0	28.0	0.0	28.0	
36182	AS	5222.0	5174.0	48.0	19.0	29.0	
36183	AL	5157.0	5143.0	14.0	1.0	13.0	
36183	AM	5164.0	5162.0	2.0	0.0	2.0	
37305	3	5088.0	5077.0	11.0	0.0	11.0	
37305	4	5061.0	5042.0	19.0	0.0	19.0	
37307	2	5123.0	5105.0	18.0	0.0	18.0	
37307	3	5090.0	5078.0	12.0	3.0	9.0	
37307	4	5056.0	5032.0	24.0	0.0	24.0	
37318	3	5096.0	5075.0	21.0	10.0	11.0	
37320	4	5086.0	5050.0	35.0	11.0	24.0	
37371	3	5090.0	5078.0	12.0	0.0	12.0	
37372	4	5060.0	5035.0	25.0	0.0	25.0	
37376	3	5091.0	5085.0	6.0	0.0	6.0	
37377	5	5033.0	5024.0	9.0	0.0	2.0	
37377	3	5084.0	5082.0	2.0	0.0	2.0	
37377	4	5069.0	5045.0	23.0	4.0	19.0	
37387	2	5108.0	5095.0	13.0	6.0	7.0	
37387	3	5095.0	5072.0	23.0	0.0	23.0	
37387	4	5062.0	5033.0	29.0	8.0	21.0	
37389	2	5106.0	5094.0	12.0	0.0	12.0	
37390	3	5090.0	5073.0	17.0	7.0	10.0	
37391	4	5078.0	5052.0	26.0	0.0	26.0	
37391	5	5046.0	5031.0	15.0	2.0	13.0	
37392	5	5039.0	5032.5	6.5	0.0	6.5	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	SANDSTONE ELEVATION	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
37392	4	5068.0		5054.0	14.0	3.0	11.0	
404	1	5143.0		5135.0	8.0	0.0	8.0	ESTIMATED BASE
424	1	5151.5		5141.0	10.5	0.0	10.5	
438	2	5132.0		5120.0	12.0	0.0	12.0	ESTIMATED BASE
5007	1	5141.0		5121.0	20.0	0.0	20.0	
657	1U	5169.0		5145.0	24.0	0.0	24.0	
70	2	5116.0		5096.0	20.0	3.0	17.0	ESTIMATED BASE
83	4	5080.0		5071.0	9.0	0.0	9.0	
84	4	5069.0		5063.0	6.0	0.0	6.0	
861	1	5140.0		5125.0	15.0	0.0	15.0	
862	1	5165.0		5158.0	7.0	0.0	7.0	
876	1	5167.5		5143.0	24.5	0.0	24.5	
878	1	5165.0		5154.0	11.0	0.0	11.0	
880	1	5163.0		5146.0	17.0	0.0	17.0	
881	1	5166.0		5146.0	20.0	0.0	20.0	
973	1	5138.0		5122.0	16.0	0.0	16.0	
973	2	5120.0		5106.0	14.0	0.0	14.0	
975	2	5123.0		5095.0	28.0	10.0	18.0	
975	3	5080.0		5068.0	12.0	0.0	12.0	
975	4	5056.0		5042.0	14.0	9.0	5.0	
975	5	5022.4		5018.4	4.0	0.0	4.0	
975	6	4998.4		4988.4	10.0	3.0	7.0	
975	7	4954.4		4952.4	2.0	0.0	2.0	
975	8	4934.4		4932.4	2.0	0.0	2.0	
975	9	4871.4		4869.4	2.0	0.0	2.0	
995	2	5123.0		5105.0	18.0	10.0	8.0	
995	3	5088.0		5060.0	28.0	0.0	28.0	
995	4	5060.0		5032.0	28.0	10.0	18.0	
995	7	4978.0		4961.0	17.0	0.0	17.0	
995	8	4930.0		4928.0	2.0	0.0	2.0	
995	9	4899.0		4893.0	6.0	0.0	6.0	
AX009	1	5152.0		5150.0	2.0	0.0	2.0	
AX010	1	5145.5		5142.0	3.5	0.0	3.5	
AX019	1	5148.0		5146.0	2.0	0.0	2.0	
AX032	1	5164.0		5154.0	10.0	0.0	10.0	

DENVER FM SANDSTONE TOP AND BASE ELEVATIONS AND THICKNESSES

WELL	ZONE OR UNIT	TOP SANDSTONE ELEVATION	BASE SANDSTONE ELEVATION	GROSS SANDSTONE THICKNESS	SHALE SANDSTONE THICKNESS	NET SANDSTONE THICKNESS	COMMENTS
AX033	1	5162.0	5159.0	3.0	0.0	3.0	
AX034	1	5164.0	5144.0	20.0	0.0	20.0	
AX040	1	5157.0	5147.0	10.0	0.0	10.0	
AX042	1	5159.5	5150.0	9.5	0.0	9.5	
AX068	2	5114.0	5107.0	7.0	0.0	7.0	
B-05	2	5112.0	5110.0	2.0	0.0	2.0	
E-69	2	5114.0	5108.0	6.0	0.0	6.0	
E-69	3	5083.0	5072.0	11.0	0.0	11.0	
E-69	4	5056.0	5044.0	12.0	0.0	12.0	
E-75	3	5098.0	5085.0	13.0	0.0	13.0	
E-75	4	5085.0	5077.0	8.0	0.0	8.0	
EP-19	2	5116.0	5098.0	18.0	7.0	11.0	
EP-19	3	5080.0	5068.0	12.0	0.0	12.0	
EP-19	4	5061.0	5032.0	29.0	0.0	29.0	
EP-19	5	5026.0	5017.0	9.0	0.0	9.0	
EP-28	2	5108.0	5090.0	18.0	0.0	18.0	
RM87-4A	1	5139.0	5124.0	15.0	0.0	15.0	

**APPENDIX A.2: BEDROCK ELEVATIONS AND SCREENED DENVER FM
ZONES OR UNITS**

BEDROCK ELEVATIONS AND SCREENED ZONES OF UNITS

EXPLANATION

An estimated bedrock elevation is listed where survey data were unavailable or where, due to the lithologic description from a boring log or other source, the elevation of the bedrock is tenuous.

Where both an estimated bedrock elevation and a bedrock elevation are listed, the estimated bedrock elevation was used to contour the bedrock surface elevation map, because the surveyed elevation was unavailable at the time of contouring.

Wells screened in the alluvium are not included on this list. See Water Chemistry Summary, 3rd Quarter, 1987 for bedrock depths.

BEDROCK ELEVATIONS AND SCREENED ZONES OR UNITS

WELL NUMBER	SCREENED ZONE OR UNIT	BEDROCK ELEVATION	ESTIMATED BEDROCK ELEVATION
01006	VC	5247.9	
01007	VC	5270.4	
01008	VC	5251.2	
01012	VC	5258.5	
01013	VC	5257.7	
01014	VC	5262.5	
01015	AU	5262.5	
01016	VC	5261.0	
01018	VC	5258.9	
01019	VC	5250.9	
01022	AM	5199.3	
01023	1U	5198.7	
01025	AU	5185.4	
01026	AL	5185.3	
01028	AS AU	5244.8	
01029	AL	5244.7	
01030	VCE	5251.1	
01031	AU	5253.4	
01032	AM	5251.3	
01034	AM	5238.2	
01035	AL	5238.5	
01036	AU	5250.6	
01037	AML	5250.6	
01039	AU	5244.9	
01040	AML	5244.9	
01042	AL	5243.8	
01043	1	5243.8	
01045	AM	5237.8	
01046	2	5237.8	
01047	VC	5245.3	
01048	2	5245.3	
01049	ALL VC	5240.1	
01050	AS	5240.1	
01052	ALL VC	0.0	5150.0
01053	VCE	0.0	5150.0
01054	ALL VCE	0.0	5150.0
01055	VCE	0.0	5150.0
01056	VCE	0.0	5150.0
01066	VC	5264.9	
01067	AUS	5264.3	
01068	AS AU	5264.7	
01515	VC	5265.7	
01516	VC	5265.1	
01517	VC	5269.6	
01520	VC	5266.1	
01521	VC	5265.6	
01522	VC	5260.5	
01523	VC	5272.5	
01524	VC	5254.4	

BEDROCK ELEVATIONS AND SCREENED ZONES OR UNITS

WELL NUMBER	SCREENED ZONE OR UNIT	BEDROCK ELEVATION	ESTIMATED BEDROCK ELEVATION
01526	VC	5263.8	
01529	VC	5264.9	
01530	VC	5267.0	
01531	VC	5260.2	
01532	VC	5267.7	
01533	VC	5262.3	
01534	VC	5261.3	
01535	VC	5255.0	
01536	VC	5249.0	
01537	VC	5261.9	
01538	VC	5265.5	
01539	VC	5262.7	
01540	VC	5261.0	
01541	VC	5257.0	
01542	VC	5252.2	
01547	B VCE	5262.3	
01548	VC	5265.0	
01549	VC	5260.6	
01550	VC	5264.3	
01551	VC	5259.7	
01552	VC	5260.1	
01553	VC	5262.1	
01554	VC	5263.4	
01555	VC	5260.8	
01556	VC	5259.1	
01557	VC	5259.4	
01558	VC	5251.8	
01559	VC	5255.7	
01560	VC	5252.5	
01563	VCE	5259.0	
01564	VC	5250.3	
01565	VC	5259.4	
01566	VC	5265.5	
01567	VC	5268.4	
01568	VC	5266.1	
01569	VC	5265.2	
01570	VC	5268.5	
01571	VC	5264.6	
01586	VC	5245.4	
01587	VC	5253.5	
01588	VC	5257.0	
01589	VC	5262.8	
01701	VC	0.0	5253.0
01702	VC	0.0	5244.0
02003	VC	5264.6	
02004	AS	5264.6	
02005	VC	5266.5	
02006	VC	5262.7	
02007	VC	5245.1	

BEDROCK ELEVATIONS AND SCREENED ZONES OR UNITS

WELL NUMBER	SCREENED ZONE OR UNIT	BEDROCK ELEVATION	ESTIMATED BEDROCK ELEVATION
02009	2	5131.7	
02010	3	5131.8	
02012	1U	5143.8	
02013	2	5143.6	
02015	1U	5180.6	
02016	2	5180.7	
02018	AU	5241.1	
02019	AL	5240.9	
02021	AL	5188.2	
02022	1U	5188.4	
02024	AM	5208.9	
02025	1U	5208.9	
02027	AM	5170.8	
02028	1U	5170.6	
02030	AUM	5259.4	
02031	1U	5259.0	
02032	AML	5233.1	
02033	1U	5233.1	
02035	AMU	5217.7	
02036	1U	5217.7	
02038	AM	5216.1	
02039	1U	5216.1	
02041	AM	5213.1	
02042	1U	5213.1	
02043	AU	5254.2	
02044	AL	5254.2	
02045	AMU	5256.1	
02046	1U	5256.1	
02047	AS	5261.7	
02048	1U	5261.7	
02543	VC	5271.7	
02544	VC	5267.6	
02545	VC	5259.1	
02561	VC	5250.9	
02562	VC	5251.2	
02572	VC	5245.9	
02573	VC	5243.2	
02574	VC	5236.7	
02575	VC	5239.8	
02576	VC	5240.0	
02577	VC	5235.7	
02578	VC	5235.3	
02579	VC	5230.6	
02580	VC	5236.2	
02581	VC	5248.3	
02582	VC	5249.4	
02583	VC	5245.4	
02584	VC	5246.5	
02585	VC	5246.4	

BEDROCK ELEVATIONS AND SCREENED ZONES OR UNITS

WELL NUMBER	SCREENED ZONE OR UNIT	BEDROCK ELEVATION	ESTIMATED BEDROCK ELEVATION
02594	VC	5263.1	
03003	3	5090.4	
03004	4	5090.8	
03006	2	5136.1	
03007	7	5135.8	
04008	3	5094.8	
04009	5	5094.7	
04011	5	5106.6	
04012	6	5106.6	
05001	B	5287.6	
05002	B	5281.4	
05003	B	5280.9	
06004	A SH	5226.4	
06005	AL LG	5226.6	
07004	B	5271.5	
07005	VC	5270.8	
08004	B	5261.6	
08005	AL LG	5261.2	
09003	2	5125.0	
09004	4	5124.1	
11003	B	5185.1	
11004	AU	5185.1	
12003	B	5225.7	
12004	AU	5225.9	
19001	1	5147.0	
19002	2	5161.5	
19003	1	5174.9	
19005	1 SH	5143.5	
19006	1	5138.2	
19007	1	5142.9	
19011	1	5190.3	
19015	2	5165.6	
19016	3	5164.4	
19017	1	5173.1	
19018	2 SH	5173.0	
19019	4	5173.0	
22002	4 5	5107.4	
22023	4	5064.5	
22024	5	5064.6	
22027	3	5111.1	
22028	4	5111.0	
22030	4	5112.5	
22031	5	5112.4	
22312	3 SH	5094.9	
23023	2	5129.1	
23053	2 SH	5111.5	
23054	1 SH	5111.0	
23055	1	5111.2	
23056	1	5111.9	

BEDROCK ELEVATIONS AND SCREENED ZONES OR UNITS

WELL NUMBER	SCREENED ZONE OR UNIT	BEDROCK ELEVATION	ESTIMATED BEDROCK ELEVATION
23061	1	5147.8	
23062	1 SH	5139.4	
23106	2 SH	5134.8	
23125	1	5136.6	
23144	2	5128.4	
23154	SH	0.0	5135.0
23155	1	0.0	5125.0
23161	3	5129.0	
23163	3	5137.0	
23167	2	5124.1	
23168	3	5124.1	
23169	4	5124.4	
23171	2	5132.5	
23172	2	5130.9	
23176	2	5131.0	
23177	2	5133.7	
23180	2	5140.8	
23181	2	5140.8	
23182	2	5127.9	
23183	4	5127.0	
23184	5	5127.6	
23185	1 SH	5145.6	
23186	2	5146.6	
23187	4	5146.5	
23189	2	5134.4	
23190	3	5134.3	
23192	3	5138.1	
23193	4	5138.0	
23199	1 SH	5134.3	
23200	3	5127.0	
23201	4	5126.6	
23202	2	5128.8	
23203	2	5128.3	
23204	2	5125.9	
23209	3	5129.3	
23210	8	5128.9	
23218	2	5127.4	5128.4
23219	3	5127.4	5128.4
23226	2	5124.4	
23227	2	5129.8	5131.0
23228	2	5129.8	5131.0
23340	2	0.0	5126.0
24063	2 SH	5138.3	
24080	1	5170.3	
24082	1	5160.9	
24083	1	5153.8	
24086	1	5158.9	
24087	1	5149.4	
24089	1	5156.1	

BEDROCK ELEVATIONS AND SCREENED ZONES OR UNITS

WELL NUMBER	SCREENED ZONE OR UNIT	BEDROCK ELEVATION	ESTIMATED BEDROCK ELEVATION
24090	1	5152.4	
24108	1	5164.7	
24109	2 SH	5168.8	
24120	3	5152.9	
24124	1	5179.8	
24125	1	5170.8	
24126	1 SH	5144.2	
24127	2	5129.2	
24130	2 SH	5126.6	
24131	3	5120.4	
24132	3	5120.4	
24133	2	5125.9	
24134	3	5125.9	
24135	2	5132.8	
24136	3	5132.8	
24137	4	5132.8	
24138	2	5131.2	
24139	3	5131.2	
24140	2	5120.1	
24141	3	5120.1	
24142	3	5114.1	
24143	4	5114.1	
24144	3	5117.7	
24145	2	5121.3	
24146	3	5121.3	
24147	3	5138.9	
24159	4	5129.1	
24167	2	5129.5	
24168	3	5129.1	
24171	2	5122.7	
24172	5	5122.6	
24174	3	5121.5	
24175	4	5121.8	
24184	2	5128.1	
24191	2	5122.9	5120.0
25004	AS	5249.0	
25005	1	5184.2	
25006	1	5184.2	
25007	1	5157.1	
25008	AS	5202.0	
25009	1	5202.9	
25010	2	5202.4	
25012	1	5177.1	
25013	2	5177.1	
25014	1	5176.7	
25015	1	5157.5	
25016	2	5157.5	
25017	2	5157.5	

BEDROCK ELEVATIONS AND SCREENED ZONES OR UNITS

WELL NUMBER	SCREENED ZONE OR UNIT	BEDROCK ELEVATION	ESTIMATED BEDROCK ELEVATION
25019	2	5145.7	
25020	4	5145.7	
25021	2	5210.9	
25023	AL	5214.9	
25024	1U	5214.4	
25025	1U	5226.1	
25026	1U	5226.1	
25027	AS	5179.5	
25028	1 SH	5179.4	
25029	1	5179.6	
25030	AS	5186.8	
25031	1	5186.7	
25032	AU	5250.7	
25033	AS	5250.8	
25034	1	5250.5	
25035	VC	5236.1	
25036	AL	5235.9	
25037	1	5236.4	
25039	1U	5184.9	
25040	1	5185.1	
26019	1	5145.4	
26021	1	5137.2	
26022	1	5144.4	
26023	1	5149.3	
26024	1 SH	5153.3	
26025	1 SH	5152.9	
26026	1	5159.2	
26027	1 SH	5165.5	
26028	1 SH	5163.4	
26029	1	5163.6	
26030	1 SH	5173.4	
26031	1	5171.4	
26041	1 SH	5145.2	
26042	2	5141.7	
26043	2	5144.1	
26047	1 SH	5138.7	
26051	1	5166.0	
26052	1	5173.2	
26053	1	5162.5	
26054	1U	5208.3	
26055	1	5206.9	
26056	1U	5205.1	
26057	1	5191.3	
26058	1	5183.6	
26060	2	5176.3	
26061	2	5146.2	
26063	1U	5190.3	
26064	1U	5190.3	
26066	1	5164.7	

BEDROCK ELEVATIONS AND SCREENED ZONES OR UNITS

WELL NUMBER	SCREENED ZONE OR UNIT	BEDROCK ELEVATION	ESTIMATED BEDROCK ELEVATION
26067	2	5164.7	
26069	2	5161.4	
26071	1	5160.0	
26072	2	5160.0	
26074	1U	5174.0	
26075	1	5174.0	
26077	2	5151.8	
26079	2	5152.6	
26080	3	5152.6	
26082	2	5144.8	
26084	2	5148.8	
26086	1	5178.0	
26089	2	5139.0	
26090	3	5139.0	
26092	2	5157.4	
26094	2	5159.5	
26096	1U	5176.8	
26097	1U	5211.1	
26098	AM	5222.6	
26123	1	5178.4	
26128	1	5160.8	
26129	2	5160.8	
26130	2	5160.9	
26131	1	5165.4	
26132	2	5145.1	
26134	2	5148.7	
26135	4	5148.7	
26136	4	5140.5	
26137	6	5140.5	
26138	3	5138.0	
26139	4 SH	5138.0	
26140	1	5173.6	
26141	2	5173.6	
26142	3 SH	5173.6	
26144	1	5174.4	
26146	2	5140.9	
26147	3	5140.0	
27021	1	5149.4	
27022	1 SH	5151.0	
27029	2	5121.6	
27033	2	5116.0	
27049	2	5140.7	
27054	4	5088.1	
27055	5	5088.0	
27057	3	5095.0	
27058	4	5095.1	
27060	2	5127.8	
27061	5	5127.8	
28025	5	5080.2	

BEDROCK ELEVATIONS AND SCREENED ZONES OR UNITS

WELL NUMBER	SCREENED ZONE OR UNIT	BEDROCK ELEVATION	ESTIMATED BEDROCK ELEVATION
28026	6	5080.3	
28028	4	5091.7	
28029	5	5091.7	
28030	3	0.0	5100.4
29002	AU	5241.6	
29003	1U	5241.6	
30004	AL	5207.3	
30005	1U	5207.3	
30006	1U	5187.7	
30007	1	5187.7	
30008	3	5187.7	
30010	1	5181.6	
30011	2	5181.6	
31002	VCE	5242.7	
31004	AL	5231.1	
31006	AM	5179.8	
31007	AL	5179.8	
31008	1U	5179.8	
31010	AU	5206.2	
31011	AL	5206.2	
32002	AL	5229.3	
32003	2	5229.3	
33015	4	5095.4	
33016	4	5095.0	
33026	7	5091.6	
33027	8	5090.8	
33029	8	5040.3	
33031	6	5054.5	
33032	7	5054.3	
33034	4	5095.5	
33035	5	5095.3	
34003	3	5106.4	
34004	4	5106.2	
34006	2	5110.4	
34007	4	5110.6	
34009	3	5080.3	
34010	4	5080.1	
35005	1U SH	5177.9	
35008	VCE	5193.7	
35009	1U	5203.8	
35010	1U	5175.3	
35012	1U	5195.8	
35013	A	5260.9	
35014	A	5256.0	
35015	AU	5245.0	
35016	1U	5196.8	
35017	1	5196.8	
35019	2	5188.1	
35021	1U	5192.4	

BEDROCK ELEVATIONS AND SCREENED ZONES OR UNITS

WELL NUMBER	SCREENED ZONE OR UNIT	BEDROCK ELEVATION	ESTIMATED BEDROCK ELEVATION
35024	AS	5215.8	
35027	AL SH	5211.1	
35028	1U	5211.1	
35030	VCE	5229.4	
35032	1	5179.1	
35033	2	5179.1	
35035	1U	5190.0	
35036	1	5190.0	
35038	1	5165.5	
35039	2	5165.5	
35041	2	5163.7	
35049	1U	5180.9	
35050	AL SH	5210.8	
35051	1U	5210.8	
35054	AL	5205.4	
35055	AU	5262.0	
35056	1U	5261.7	
35059	1U	5177.4	
35060	2	5177.4	
35062	AL	5208.6	
35063	1U	5209.0	
35066	AL	5203.1	
35067	1U	5203.1	
35068	1 2 & 3	5202.9	
35070	1U	5199.4	
35071	AS	5261.0	
35072	1	5261.0	
35073	AS	5251.4	
35074	VC	5251.4	
36002	AL	5210.0	
36003	AS	5217.8	
36004	VCE	5228.1	
36007	AS	5220.3	
36008	AS	5218.1	
36009	AS	5214.9	
36010	AS	5210.5	
36011	AS	5210.9	
36012	AS	5213.5	
36020	AS	5222.9	
36024	AL	5209.5	
36025	A SH	5210.6	
36026	AS	5213.6	
36027	AM	5218.2	
36029	AS	5216.6	
36033	AS	5222.0	
36034	A SH	5223.0	
36036	AS	5218.9	
36037	AS	5216.8	
36038	AS	5214.1	

BEDROCK ELEVATIONS AND SCREENED ZONES OR UNITS

WELL NUMBER	SCREENED ZONE OR UNIT	BEDROCK ELEVATION	ESTIMATED BEDROCK ELEVATION
36039	A SH	5209.1	
36043	AM	5196.3	
36044	AS	5220.8	
36045	A	5228.5	
36046	A	5223.5	
36047	AS	5222.0	
36055	VC	5229.4	
36056	VC	5217.9	
36057	A	5202.8	
36058	VCE	5236.6	
36059	A SH	5236.6	
36061	1U	5224.4	
36062	VCE	5219.5	
36064	AL	5225.9	
36066	AL	5221.6	
36067	1U	5217.4	
36068	VCE	5224.1	
36069	VCE	5229.5	
36071	AM	5202.5	
36072	AL	5202.5	
36078	A SH	5217.5	
36079	1 SH	5217.5	
36083	1U	5204.7	
36086	VCE	5242.8	
36090	VC	5231.9	
36092	AS	5197.3	
36094	AS	5196.4	
36096	AS	5199.2	
36099	AS	5200.4	
36100	AL	5199.0	
36104	1U	5217.4	
36105	AM	5229.5	
36107	A	5234.3	
36110	AS	5231.0	
36113	1U	5214.5	
36114	1 2	5214.3	
36116	AU	5273.3	
36117	AM	5273.3	
36118	AU	5256.6	
36119	AM	5256.6	
36121	AM	5211.1	
36122	AM	5211.1	
36138	AS	5222.7	
36139	AS	5222.7	
36140	AS	5222.7	
36141	A	5222.0	
36146	AM	5225.5	
36147	1U SH	5225.3	
36148	1 2 & 3	5223.6	

BEDROCK ELEVATIONS AND SCREENED ZONES OR UNITS

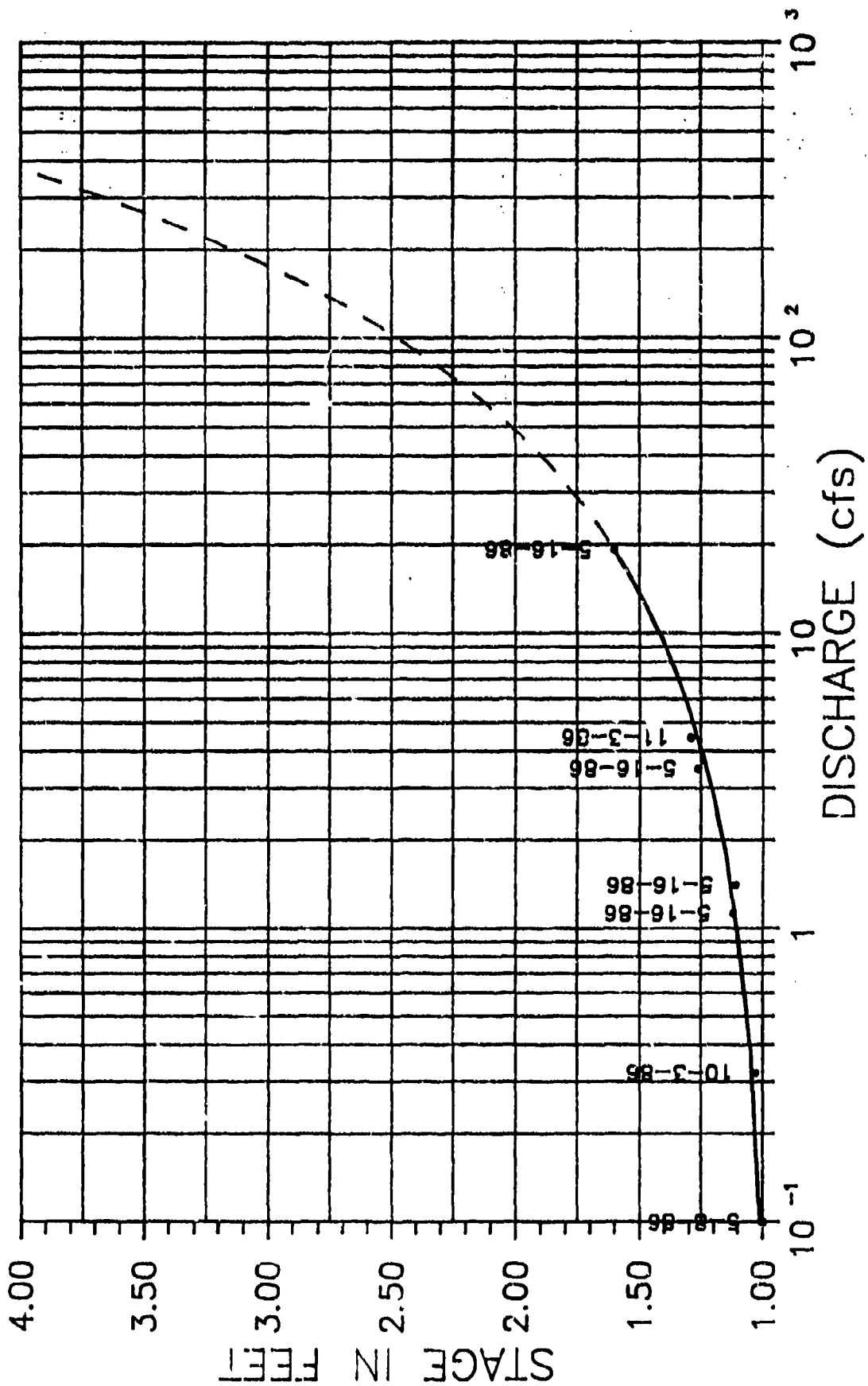
WELL NUMBER	SCREENED ZONE OR UNIT	BEDROCK ELEVATION	ESTIMATED BEDROCK ELEVATION
36149	1U	5224.0	
36151	VC	5257.2	
36152	VC	5232.6	
36153	VC	5228.7	
36154	1U	5246.8	
36155	AL	5246.9	
36156	1U	5238.5	
36157	A	5238.5	
36160	1 SH	5234.5	
36592	A SH	5230.6	
37316	5	5095.0	
37317	4	5095.0	
37318	3	5093.0	
37319	6	5094.0	
37321	4	5095.0	
37322	5	5096.0	
37323	2	5120.0	
37365	4	5076.9	
37371	3	5091.3	5090.0
37372	4	5091.5	5090.0
37376	3	5105.6	5108.7
37379	3	5091.3	5092.3
37380	4	5092.0	5092.3
37382	3	5077.8	5077.8
37387	2	5118.2	5117.4
37388	4	5118.4	5117.4
37390	3	5103.9	5100.0

APPENDIX B
HYDROLOGIC DATA

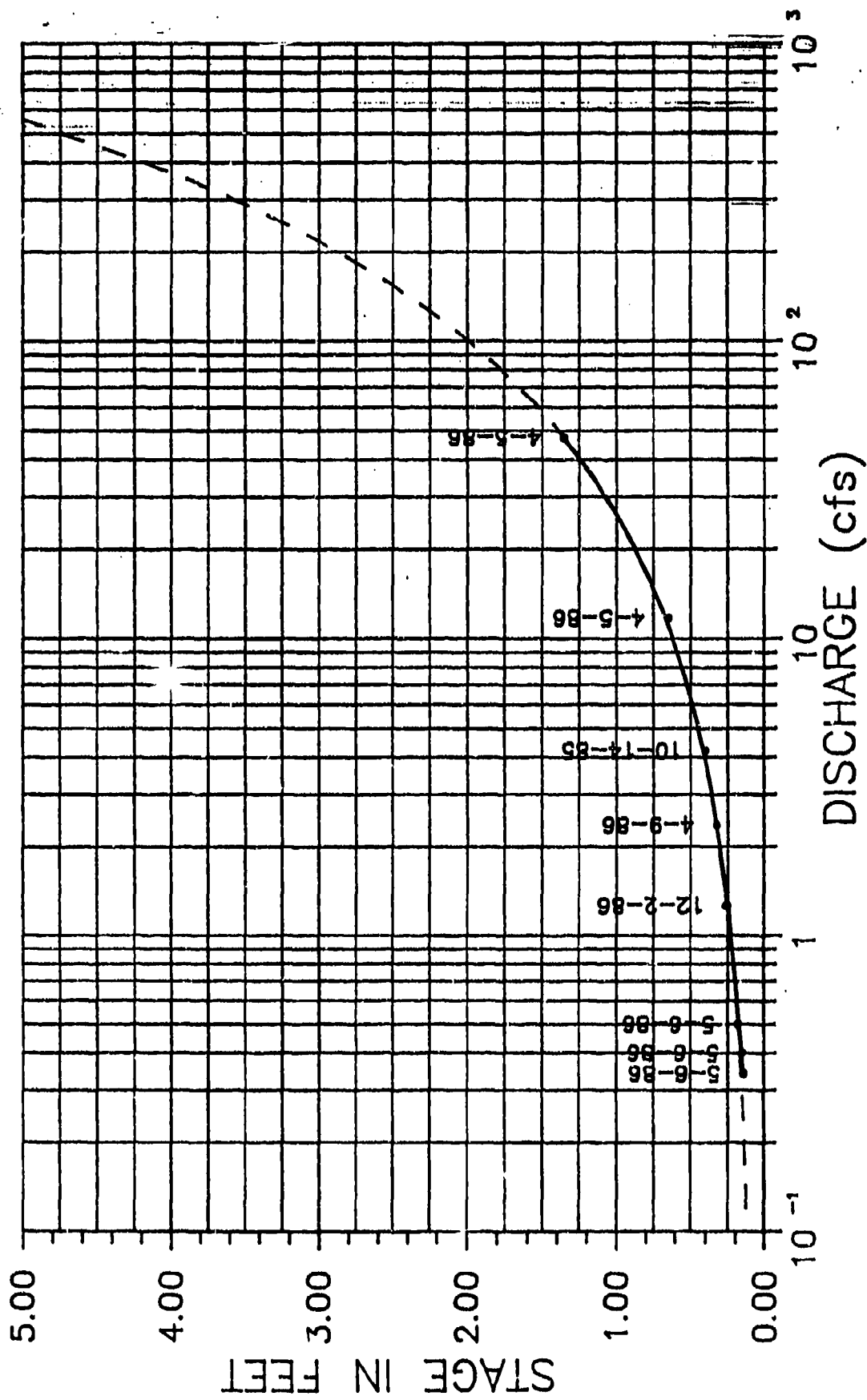
APPENDIX B.1: SURFACE WATER DATA

RATING CURVES FOR RMA STREAM GAGING STATIONS

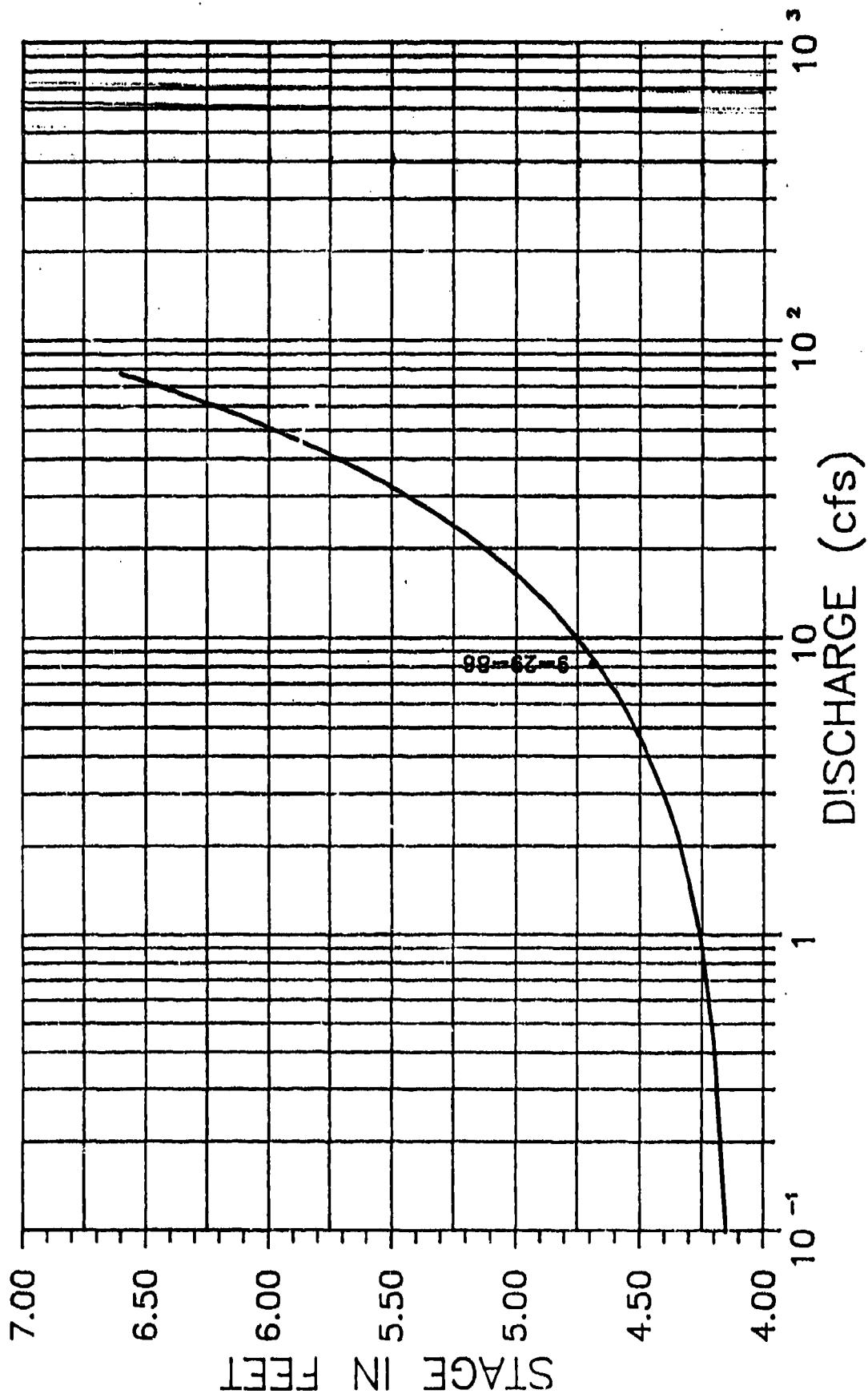
PEORIA INTERCEPT RATING CURVE



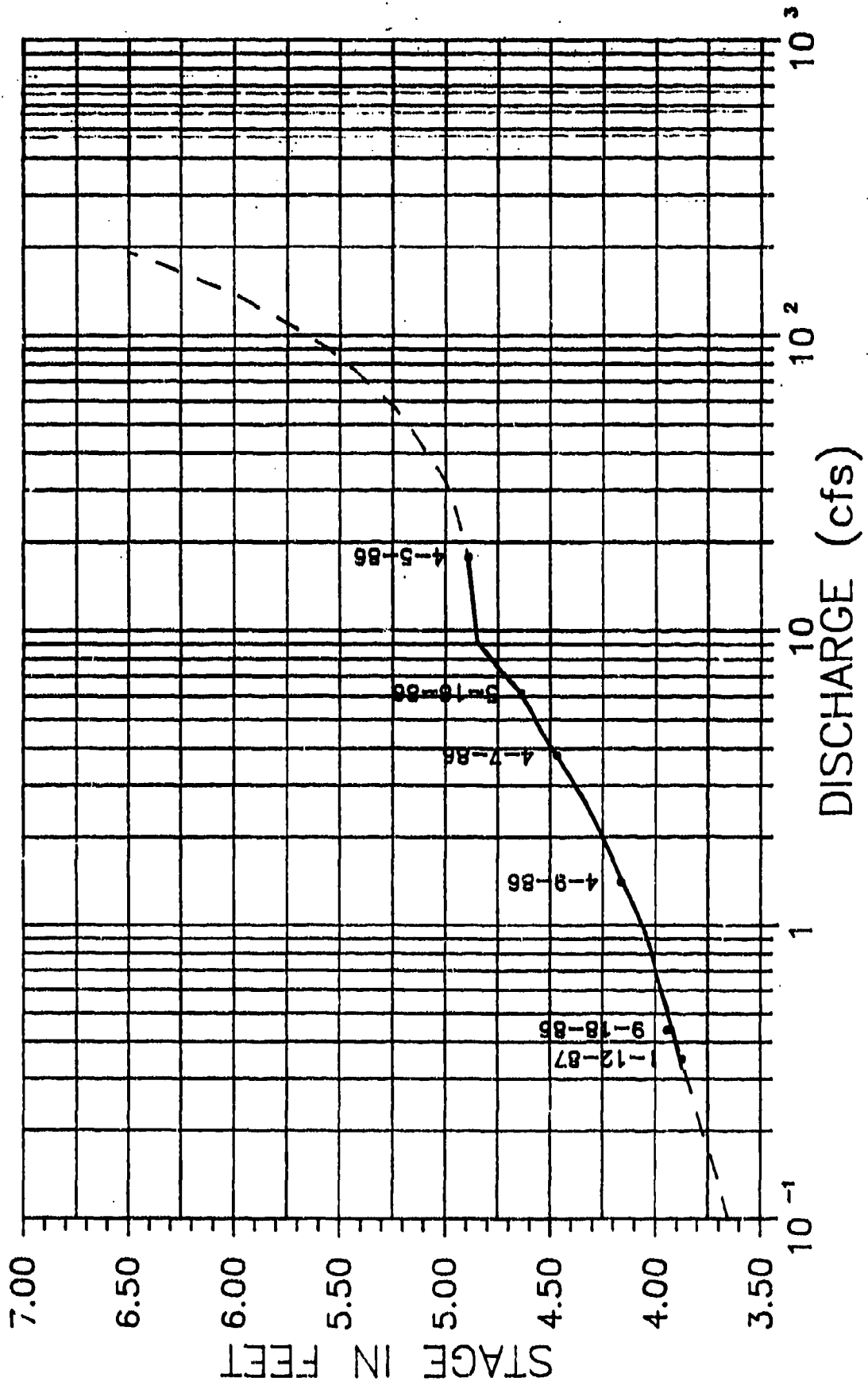
HAVANA INTERCEPT RATING CURVE



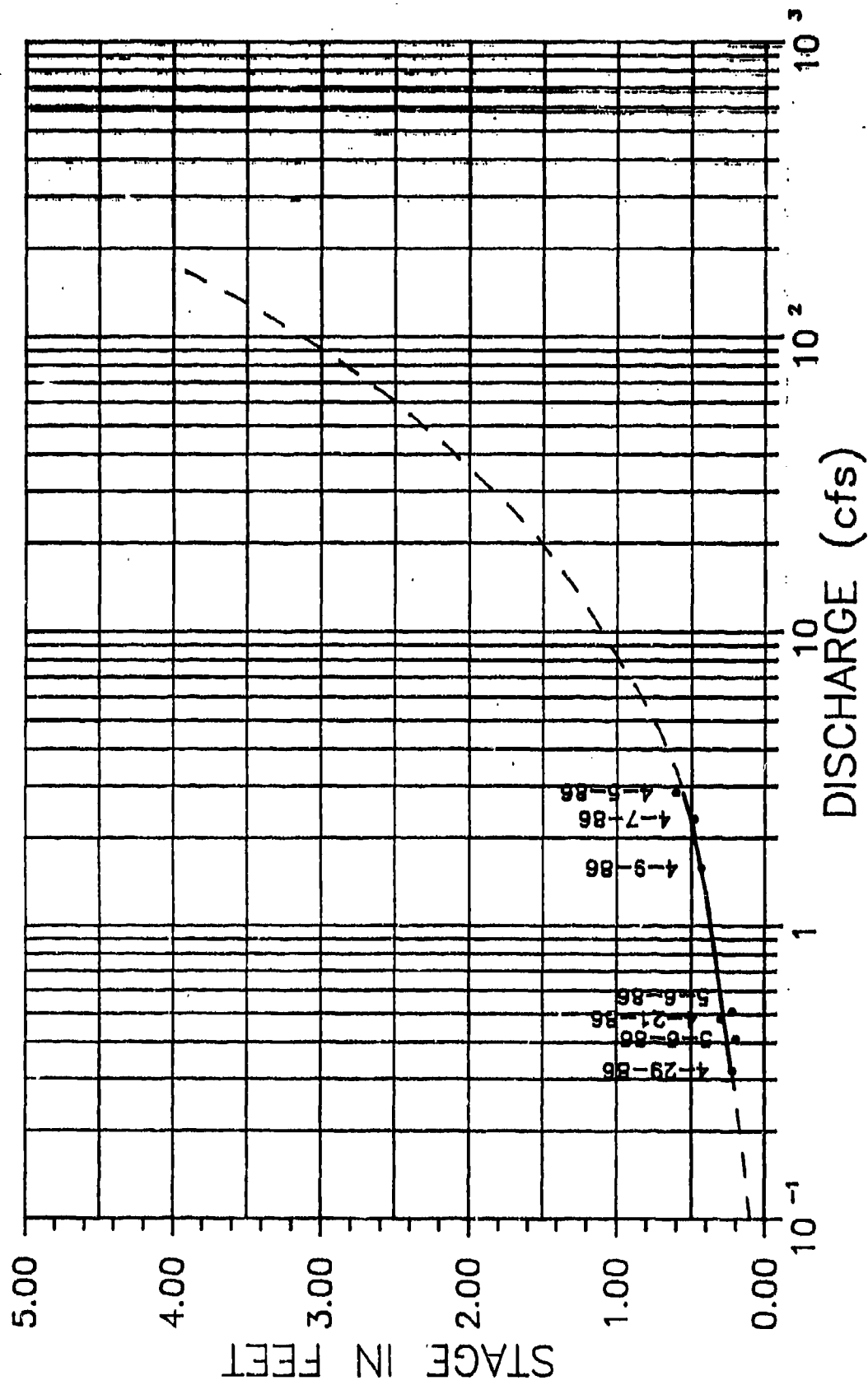
LADORA WEIR RATING CURVE



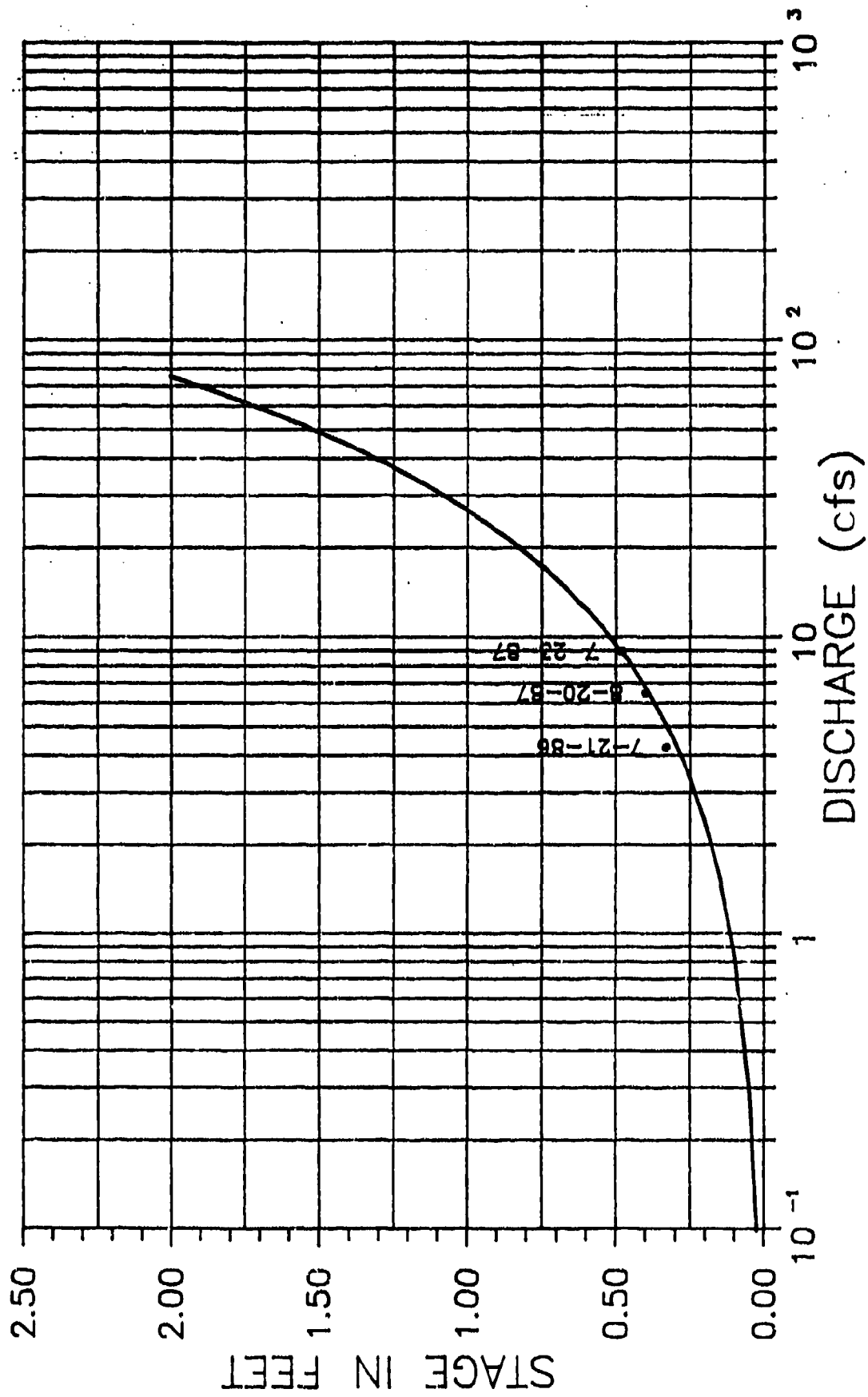
SOUTH UVALDA RATING CURVE



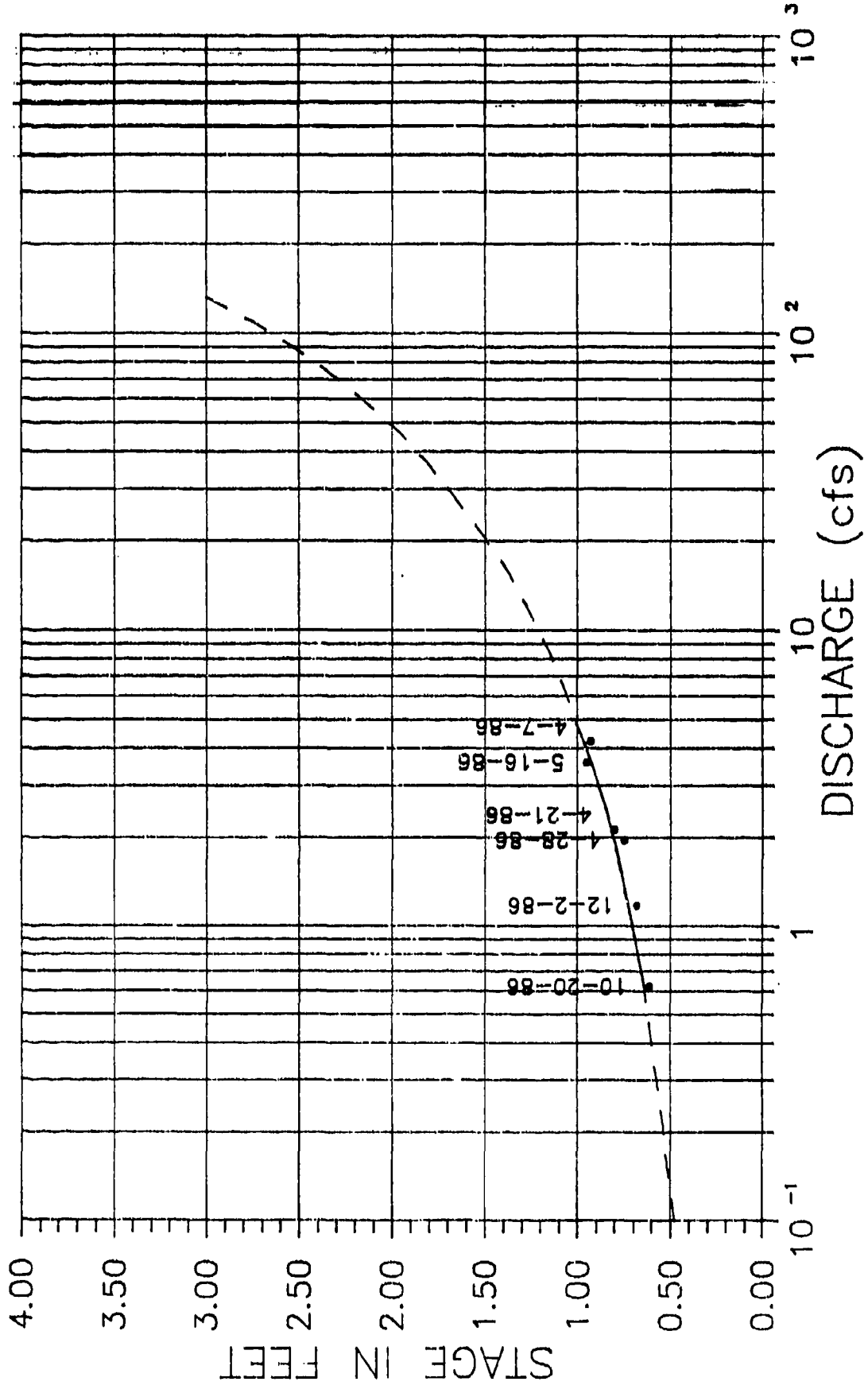
NORTH UVALDA RATING CURVE



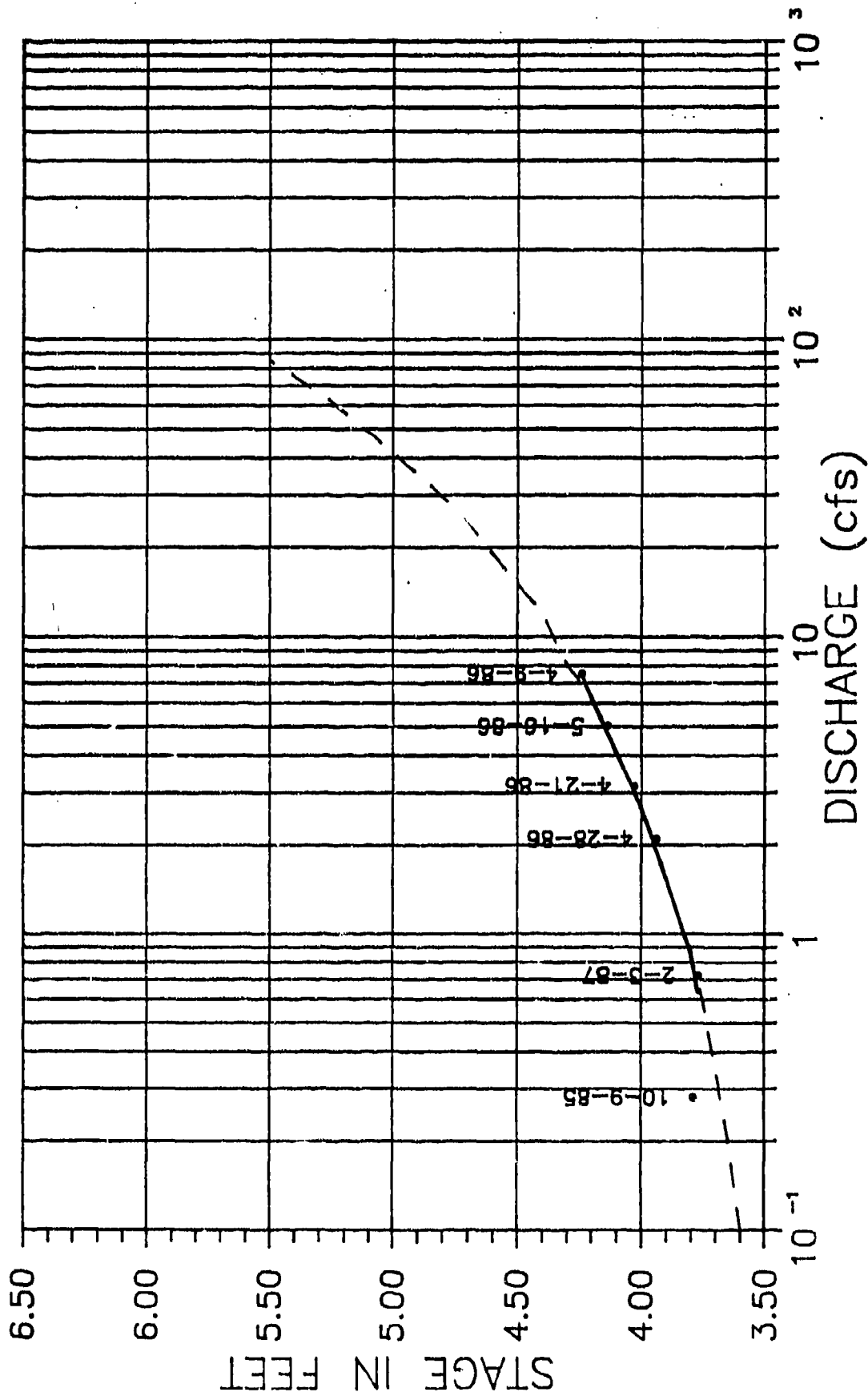
HIGHLINE LATERAL RATING CURVE



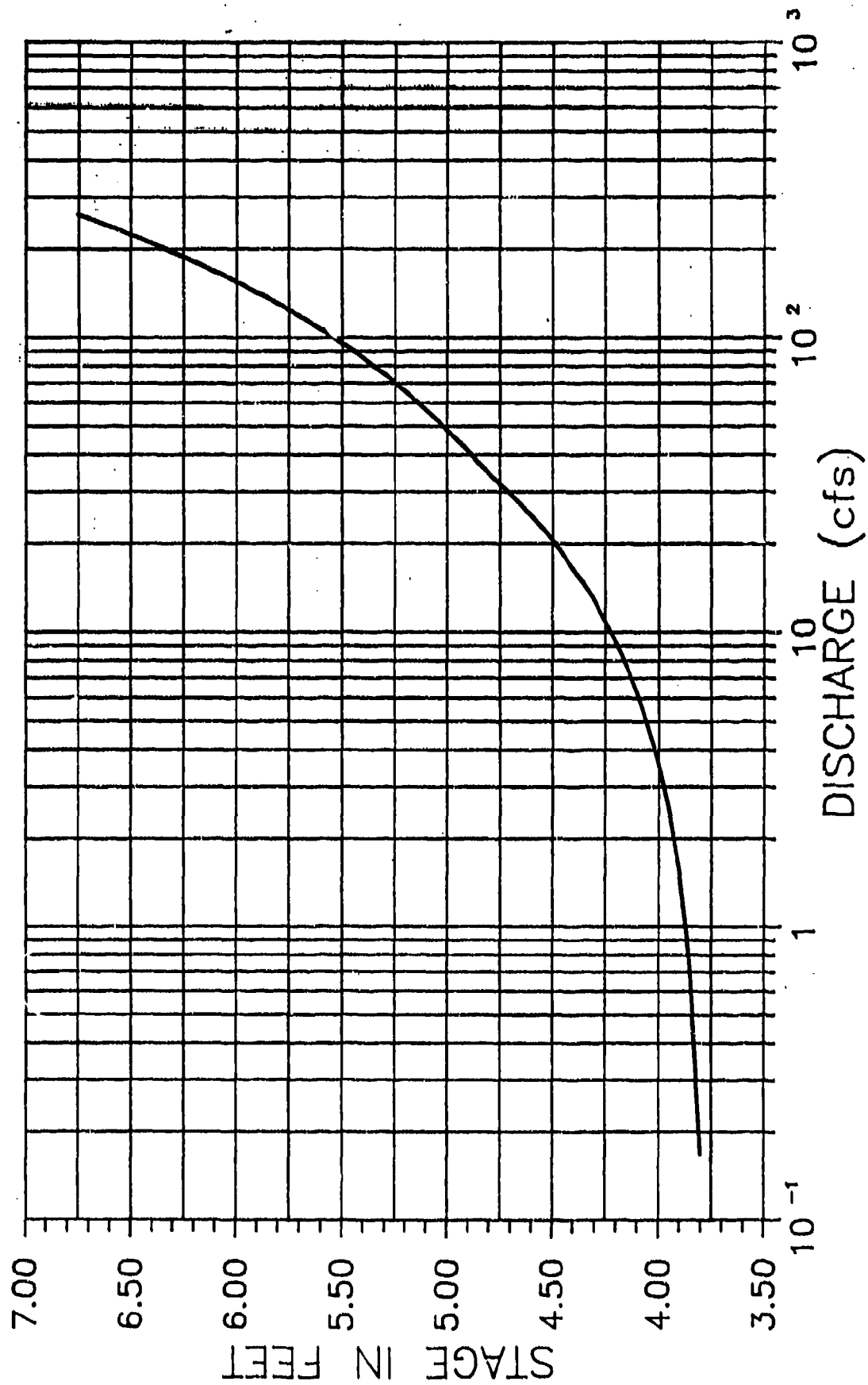
SOUTH FIRST CREEK RATING CURVE



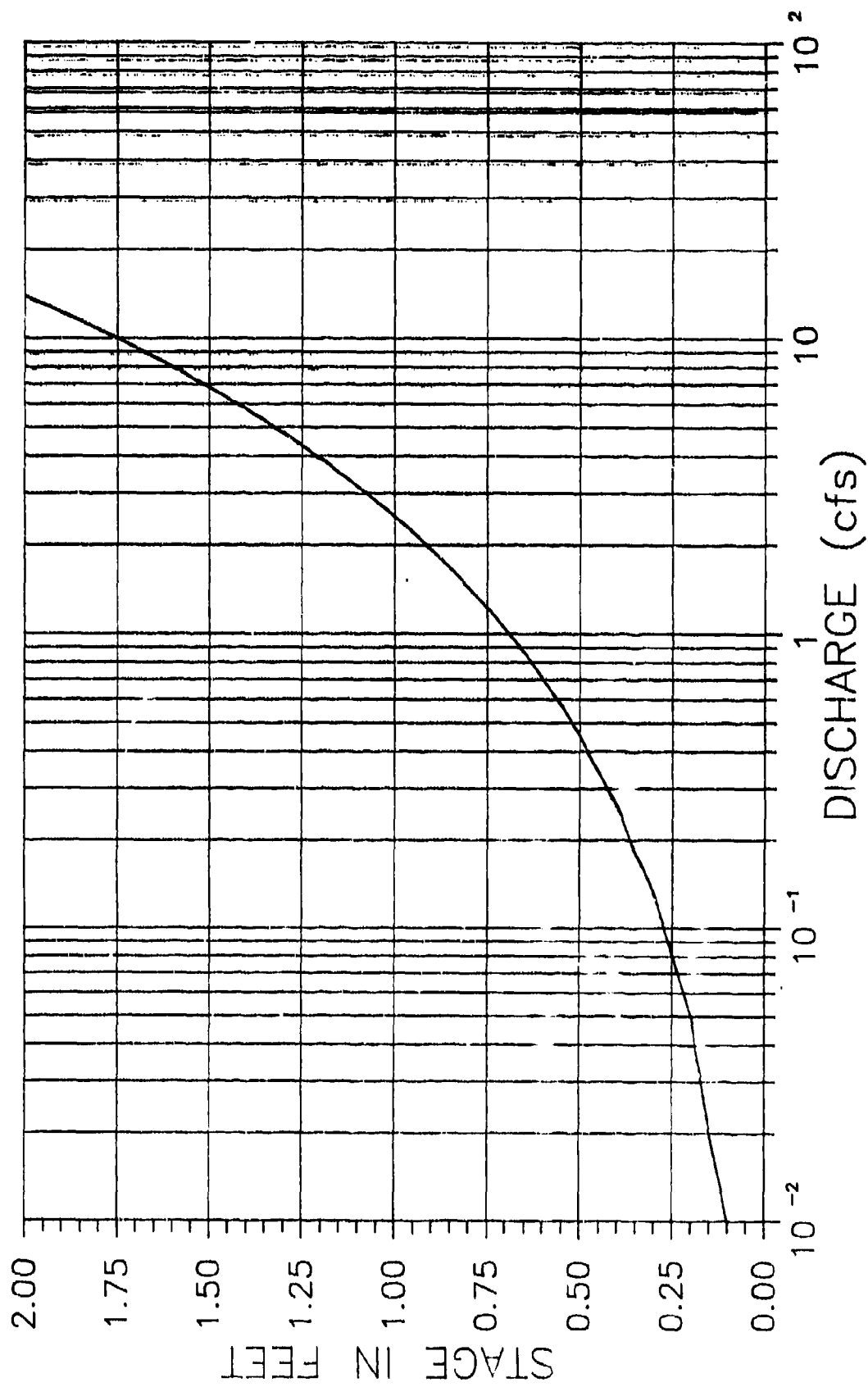
NORTH FIRST CREEK RATING CURVE



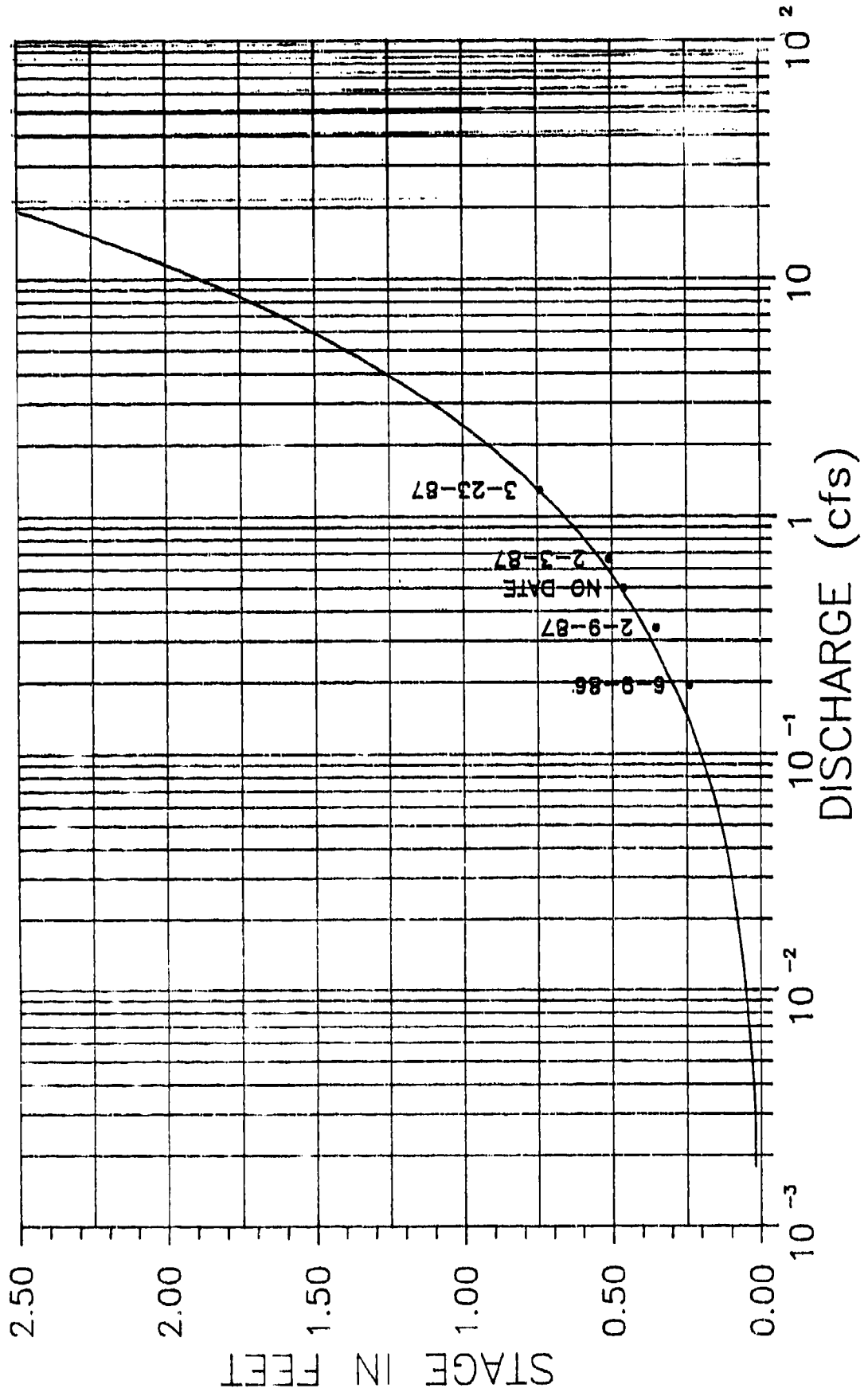
SOUTH PLANTS DITCH RATING CURVE



BASIN A RATING CURVE



FIRST CREEK OFFPOST RATING CURVE



STAGE DISCHARGE AND STAGE AREA TABULATION FOR RMA LOWER LAKES

UPPER DERBY LAKE

ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5247.00	-2.25	0.2	0.1	5249.00	-0.25	6.2	6.3
5247.05	-2.20	0.3	0.1	5249.05	-0.20	6.4	6.7
5247.10	-2.15	0.5	0.2	5249.10	-0.15	6.6	7.1
5247.15	-2.10	0.6	0.3	5249.15	-0.10	6.8	7.5
5247.20	-2.05	0.8	0.4	5249.20	-0.05	6.9	7.9
5247.25	-2.00	0.9	0.4	5249.25	0.00	7.1	8.3
5247.30	-1.95	1.0	0.5	5249.30	0.05	7.3	8.7
5247.35	-1.90	1.2	0.6	5249.35	0.10	7.5	9.1
5247.40	-1.85	1.3	0.7	5249.40	0.15	7.7	9.5
5247.45	-1.80	1.5	0.8	5249.45	0.20	7.9	9.9
5247.50	-1.75	1.6	0.9	5249.50	0.25	8.1	10.3
5247.55	-1.70	1.7	0.9	5249.55	0.30	8.2	10.7
5247.60	-1.65	1.9	1.0	5249.60	0.35	8.4	11.1
5247.65	-1.60	2.0	1.1	5249.65	0.40	8.6	11.5
5247.70	-1.55	2.2	1.2	5249.70	0.45	8.8	11.9
5247.75	-1.50	2.3	1.3	5249.75	0.50	9.0	12.3
5247.80	-1.45	2.4	1.3	5249.80	0.55	9.2	12.7
5247.85	-1.40	2.6	1.4	5249.85	0.60	9.3	13.1
5247.90	-1.35	2.7	1.5	5249.90	0.65	9.5	13.5
5247.95	-1.30	2.9	1.6	5249.95	0.70	9.7	13.9
5248.00	-1.25	3.0	1.7	5250.00	0.75	9.9	14.3
5248.05	-1.20	3.2	1.9	5250.05	0.80	10.1	14.9
5248.10	-1.15	3.3	2.1	5250.10	0.85	10.4	15.5
5248.15	-1.10	3.5	2.3	5250.15	0.90	10.6	16.1
5248.20	-1.05	3.6	2.6	5250.20	0.95	10.9	16.8
5248.25	-1.00	3.8	2.8	5250.25	1.00	11.1	17.4
5248.30	-0.95	4.0	3.0	5250.30	1.05	11.3	18.0
5248.35	-0.90	4.1	3.3	5250.35	1.10	11.6	18.6
5248.40	-0.85	4.3	3.5	5250.40	1.15	11.8	19.2
5248.45	-0.80	4.4	3.7	5250.45	1.20	12.1	19.8
5248.50	-0.75	4.6	4.0	5250.50	1.25	12.3	20.5
5248.55	-0.70	4.8	4.2	5250.55	1.30	12.5	21.1
5248.60	-0.65	4.9	4.4	5250.60	1.35	12.8	21.7
5248.65	-0.60	5.1	4.6	5250.65	1.40	13.0	22.3
5248.70	-0.55	5.2	4.9	5250.70	1.45	13.3	22.9
5248.75	-0.50	5.4	5.1	5250.75	1.50	13.5	23.5
5248.80	-0.45	5.6	5.3	5250.80	1.55	13.7	24.1
5248.85	-0.40	5.7	5.6	5250.85	1.60	14.0	24.8
5248.90	-0.35	5.9	5.8	5250.90	1.65	14.2	25.4
5248.95	-0.30	6.0	6.0	5250.95	1.70	14.5	26.0

UPPER DERBY LAKE

ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5251.00	1.75	14.7	26.6	5253.00	3.75	28.7	69.1
5251.05	1.80	15.0	27.5	5253.05	3.80	29.1	70.7
5251.10	1.85	15.3	28.4	5253.10	3.85	29.5	72.4
5251.15	1.90	15.6	29.3	5253.15	3.90	29.9	74.0
5251.20	1.95	15.9	30.2	5253.20	3.95	30.4	75.7
5251.25	2.00	16.2	31.0	5253.25	4.00	30.8	77.3
5251.30	2.05	16.5	31.9	5253.30	4.05	31.2	79.0
5251.35	2.10	16.8	32.8	5253.35	4.10	31.6	80.6
5251.40	2.15	17.1	33.7	5253.40	4.15	32.0	82.2
5251.45	2.20	17.4	34.6	5253.45	4.20	32.4	83.9
5251.50	2.25	17.8	35.5	5253.50	4.25	32.9	85.5
5251.55	2.30	18.1	36.4	5253.55	4.30	33.3	87.2
5251.60	2.35	18.4	37.3	5253.60	4.35	33.7	88.8
5251.65	2.40	18.7	38.1	5253.65	4.40	34.1	90.5
5251.70	2.45	19.0	39.0	5253.70	4.45	34.5	92.1
5251.75	2.50	19.3	39.9	5253.75	4.50	34.9	93.7
5251.80	2.55	19.6	40.8	5253.80	4.55	35.3	95.4
5251.85	2.60	19.9	41.7	5253.85	4.60	35.8	97.0
5251.90	2.65	20.2	42.6	5253.90	4.65	36.2	98.7
5251.95	2.70	20.5	43.5	5253.95	4.70	36.6	100.3
5252.00	2.75	20.8	44.4	5254.00	4.75	37.0	102.0
5252.05	2.80	21.2	45.6	5254.05	4.80	37.4	104.0
5252.10	2.85	21.6	46.8	5254.10	4.85	37.8	106.1
5252.15	2.90	22.0	48.1	5254.15	4.90	38.2	108.1
5252.20	2.95	22.4	49.3	5254.20	4.95	38.6	110.2
5252.25	3.00	22.8	50.5	5254.25	5.00	39.1	112.2
5252.30	3.05	23.2	51.8	5254.30	5.05	39.5	114.3
5252.35	3.10	23.6	53.0	5254.35	5.10	39.9	116.3
5252.40	3.15	24.0	54.3	5254.40	5.15	40.3	118.4
5252.45	3.20	24.4	55.5	5254.45	5.20	40.7	120.4
5252.50	3.25	24.8	56.7	5254.50	5.25	41.1	122.5
5252.55	3.30	25.1	58.0	5254.55	5.30	41.5	124.6
5252.60	3.35	25.5	59.2	5254.60	5.35	41.9	126.6
5252.65	3.40	25.9	60.4	5254.65	5.40	42.3	128.7
5252.70	3.45	26.3	61.7	5254.70	5.45	42.7	130.7
5252.75	3.50	26.7	62.9	5254.75	5.50	43.2	132.8
5252.80	3.55	27.1	64.2	5254.80	5.55	43.6	134.8
5252.85	3.60	27.5	65.4	5254.85	5.60	44.0	136.9
5252.90	3.65	27.9	66.6	5254.90	5.65	44.4	138.9
5252.95	3.70	28.3	67.9	5254.95	5.70	44.8	141.0

UPPER DERBY LAKE

ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5255.00	5.75	45.2	143.1	5257.00	7.75	61.0	249.4
5255.05	5.80	45.6	145.5	5257.05	7.80	61.4	252.6
5255.10	5.85	46.0	148.0	5257.10	7.85	61.8	255.9
5255.15	5.90	46.4	150.4	5257.15	7.90	62.2	259.1
5255.20	5.95	46.8	152.9	5257.20	7.95	62.6	262.4
5255.25	6.00	47.2	155.4	5257.25	8.00	63.0	265.6
5255.30	6.05	47.6	157.8	5257.30	8.05	63.4	268.9
5255.35	6.10	48.0	160.3	5257.35	8.10	63.8	272.1
5255.40	6.15	48.4	162.7	5257.40	8.15	64.2	275.4
5255.45	6.20	48.8	165.2	5257.45	8.20	64.6	278.6
5255.50	6.25	49.2	167.7	5257.50	8.25	65.0	281.9
5255.55	6.30	49.6	170.1	5257.55	8.30	65.4	285.1
5255.60	6.35	50.0	172.6	5257.60	8.35	65.8	288.4
5255.65	6.40	50.4	175.0	5257.65	8.40	66.2	291.6
5255.70	6.45	50.8	177.5	5257.70	8.45	66.6	294.9
5255.75	6.50	51.2	180.0	5257.75	8.50	67.0	298.1
5255.80	6.55	51.6	182.4	5257.80	8.55	67.4	301.4
5255.85	6.60	52.0	184.9	5257.85	8.60	67.8	304.6
5255.90	6.65	52.4	187.3	5257.90	8.65	68.2	307.9
5255.95	6.70	52.8	189.8	5257.95	8.70	68.6	311.1
5256.00	6.75	53.2	192.3	5258.00	8.75	69.0	314.4
5256.05	6.80	53.6	195.1	5258.05	8.80	69.4	318.0
5256.10	6.85	54.0	198.0	5258.10	8.85	69.8	321.6
5256.15	6.90	54.4	200.8	5258.15	8.90	70.2	325.3
5256.20	6.95	54.8	203.7	5258.20	8.95	70.6	328.9
5256.25	7.00	55.2	206.5	5258.25	9.00	71.0	332.6
5256.30	7.05	55.5	209.4	5258.30	9.05	71.4	336.2
5256.35	7.10	55.9	212.2	5258.35	9.10	71.8	339.9
5256.40	7.15	56.3	215.1	5258.40	9.15	72.2	343.5
5256.45	7.20	56.7	217.9	5258.45	9.20	72.6	347.2
5256.50	7.25	57.1	220.8	5258.50	9.25	73.0	350.8
5256.55	7.30	57.5	223.7	5258.55	9.30	73.3	354.5
5256.60	7.35	57.9	226.5	5258.60	9.35	73.7	358.1
5256.65	7.40	58.3	229.4	5258.65	9.40	74.1	361.8
5256.70	7.45	58.7	232.2	5258.70	9.45	74.5	365.4
5256.75	7.50	59.1	235.1	5258.75	9.50	74.9	369.1
5256.80	7.55	59.4	237.9	5258.80	9.55	75.3	372.7
5256.85	7.60	59.8	240.8	5258.85	9.60	75.7	376.4
5256.90	7.65	60.2	243.6	5258.90	9.65	76.1	380.0
5256.95	7.70	60.6	246.5	5258.95	9.70	76.5	383.7

UPPER DERBY LAKE

ELEVATION (Ft., msl.)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft., msl.)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5259.00	9.75	76.9	387.3	5261.00	11.75	93.5	557.5
5259.05	9.80	77.3	391.3	5261.05	11.80	93.9	562.4
5259.10	9.85	77.7	395.4	5261.10	11.85	94.3	567.3
5259.15	9.90	78.1	399.4	5261.15	11.90	94.7	572.1
5259.20	9.95	78.5	403.5	5261.20	11.95	95.2	577.0
5259.25	10.00	78.9	407.5	5261.25	12.00	95.6	581.9
5259.30	10.05	79.3	411.6	5261.30	12.05	96.0	586.8
5259.35	10.10	79.7	415.6	5261.35	12.10	96.4	591.7
5259.40	10.15	80.1	419.7	5261.40	12.15	96.8	596.6
5259.45	10.20	80.5	423.7	5261.45	12.20	97.2	601.4
5259.50	10.25	81.0	427.8	5261.50	12.25	97.7	606.3
5259.55	10.30	81.4	431.8	5261.55	12.30	98.1	611.2
5259.60	10.35	81.8	435.9	5261.60	12.35	98.5	616.1
5259.65	10.40	82.2	439.9	5261.65	12.40	98.9	621.0
5259.70	10.45	82.6	444.0	5261.70	12.45	99.3	625.9
5259.75	10.50	83.0	448.0	5261.75	12.50	99.7	630.7
5259.80	10.55	83.4	452.1	5261.80	12.55	100.1	635.6
5259.85	10.60	83.8	456.1	5261.85	12.60	100.6	640.5
5259.90	10.65	84.2	460.2	5261.90	12.65	101.0	645.4
5259.95	10.70	84.6	464.2	5261.95	12.70	101.4	650.3
5260.00	10.75	85.0	468.3	5262.00	12.75	101.8	655.2

LOWER DERBY LAKE

ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5231.00	0.00	0.9	0.2	5233.00	2.00	6.5	7.4
5231.05	0.05	1.0	0.3	5233.05	2.05	6.7	7.8
5231.10	0.10	1.2	0.4	5233.10	2.10	6.9	8.2
5231.15	0.15	1.3	0.5	5233.15	2.15	7.0	8.6
5231.20	0.20	1.4	0.6	5233.20	2.20	7.2	9.0
5231.25	0.25	1.6	0.7	5233.25	2.25	7.4	9.4
5231.30	0.30	1.7	0.8	5233.30	2.30	7.6	9.9
5231.35	0.35	1.8	1.0	5233.35	2.35	7.7	10.3
5231.40	0.40	1.9	1.1	5233.40	2.40	7.9	10.7
5231.45	0.45	2.1	1.2	5233.45	2.45	8.1	11.1
5231.50	0.50	2.2	1.3	5233.50	2.50	8.3	11.5
5231.55	0.55	2.3	1.4	5233.55	2.55	8.4	11.9
5231.60	0.60	2.5	1.5	5233.60	2.60	8.6	12.3
5231.65	0.65	2.6	1.6	5233.65	2.65	8.8	12.7
5231.70	0.70	2.7	1.7	5233.70	2.70	9.0	13.2
5231.75	0.75	2.9	1.8	5233.75	2.75	9.1	13.6
5231.80	0.80	3.0	1.9	5233.80	2.80	9.3	14.0
5231.85	0.85	3.1	2.1	5233.85	2.85	9.5	14.4
5231.90	0.90	3.2	2.2	5233.90	2.90	9.7	14.8
5231.95	0.95	3.4	2.3	5233.95	2.95	9.8	15.2
5232.00	1.00	3.5	2.4	5234.00	3.00	10.0	15.6
5232.05	1.05	3.7	2.6	5234.05	3.05	10.2	16.2
5232.10	1.10	3.8	2.9	5234.10	3.10	10.5	16.9
5232.15	1.15	4.0	3.1	5234.15	3.15	10.7	17.5
5232.20	1.20	4.1	3.4	5234.20	3.20	10.9	18.1
5232.25	1.25	4.3	3.6	5234.25	3.25	11.2	18.7
5232.30	1.30	4.4	3.9	5234.30	3.30	11.4	19.3
5232.35	1.35	4.6	4.1	5234.35	3.35	11.6	19.9
5232.40	1.40	4.7	4.4	5234.40	3.40	11.8	20.5
5232.45	1.45	4.9	4.6	5234.45	3.45	12.1	21.2
5232.50	1.50	5.0	4.9	5234.50	3.50	12.3	21.8
5232.55	1.55	5.2	5.1	5234.55	3.55	12.5	22.4
5232.60	1.60	5.3	5.4	5234.60	3.60	12.8	23.0
5232.65	1.65	5.5	5.6	5234.65	3.65	13.0	23.6
5232.70	1.70	5.6	5.9	5234.70	3.70	13.2	24.2
5232.75	1.75	5.8	6.1	5234.75	3.75	13.5	24.8
5232.80	1.80	5.9	6.4	5234.80	3.80	13.7	25.4
5232.85	1.85	6.1	6.6	5234.85	3.85	13.9	26.1
5232.90	1.90	6.2	6.9	5234.90	3.90	14.1	26.7
5232.95	1.95	6.4	7.1	5234.95	3.95	14.4	27.3

LOWER DERBY LAKE

ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5235.00	4.00	14.6	27.9	5237.00	6.00	21.7	63.6
5235.05	4.05	14.7	28.7	5237.05	6.05	21.9	64.8
5235.10	4.10	14.9	29.5	5237.10	6.10	22.2	66.0
5235.15	4.15	15.0	30.3	5237.15	6.15	22.4	67.2
5235.20	4.20	15.2	31.1	5237.20	6.20	22.6	68.4
5235.25	4.25	15.3	31.9	5237.25	6.25	22.8	69.6
5235.30	4.30	15.5	32.7	5237.30	6.30	23.0	70.8
5235.35	4.35	15.6	33.5	5237.35	6.35	23.3	72.0
5235.40	4.40	15.8	34.3	5237.40	6.40	23.5	73.2
5235.45	4.45	15.9	35.1	5237.45	6.45	23.7	74.4
5235.50	4.50	16.1	36.0	5237.50	6.50	24.0	75.6
5235.55	4.55	16.2	36.8	5237.55	6.55	24.2	76.7
5235.60	4.60	16.3	37.6	5237.60	6.60	24.4	77.9
5235.65	4.65	16.5	38.4	5237.65	6.65	24.6	79.1
5235.70	4.70	16.6	39.2	5237.70	6.70	24.9	80.3
5235.75	4.75	16.8	40.0	5237.75	6.75	25.1	81.5
5235.80	4.80	16.9	40.8	5237.80	6.80	25.3	82.7
5235.85	4.85	17.1	41.6	5237.85	6.85	25.5	83.9
5235.90	4.90	17.2	42.4	5237.90	6.90	25.8	85.1
5235.95	4.95	17.4	43.2	5237.95	6.95	26.0	86.3
5236.00	5.00	17.5	44.0	5238.00	7.00	26.2	87.5
5236.05	5.05	17.7	45.0	5238.05	7.05	26.5	89.0
5236.10	5.10	17.9	46.0	5238.10	7.10	26.8	90.4
5236.15	5.15	18.1	46.9	5238.15	7.15	27.1	91.9
5236.20	5.20	18.3	47.9	5238.20	7.20	27.3	93.3
5236.25	5.25	18.6	48.9	5238.25	7.25	27.6	94.8
5236.30	5.30	18.8	49.9	5238.30	7.30	27.9	96.2
5236.35	5.35	19.0	50.9	5238.35	7.35	28.2	97.7
5236.40	5.40	19.2	51.8	5238.40	7.40	28.5	99.1
5236.45	5.45	19.4	52.8	5238.45	7.45	28.8	100.6
5236.50	5.50	19.6	53.8	5238.50	7.50	29.1	102.1
5236.55	5.55	19.8	54.8	5238.55	7.55	29.3	103.5
5236.60	5.60	20.0	55.8	5238.60	7.60	29.6	105.0
5236.65	5.65	20.2	56.7	5238.65	7.65	29.9	106.4
5236.70	5.70	20.4	57.7	5238.70	7.70	30.2	107.9
5236.75	5.75	20.7	58.7	5238.75	7.75	30.5	109.3
5236.80	5.80	20.9	59.7	5238.80	7.80	30.8	110.8
5236.85	5.85	21.1	60.7	5238.85	7.85	31.0	112.2
5236.90	5.90	21.3	61.6	5238.90	7.90	31.3	113.7
5236.95	5.95	21.5	62.6	5238.95	7.95	31.6	115.1

LOWER DERBY LAKE

ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5239.00	8.00	31.9	116.6	5241.00	10.00	43.5	192.1
5239.05	8.05	32.2	118.3	5241.05	10.05	43.8	194.4
5239.10	8.10	32.5	120.1	5241.10	10.10	44.1	196.7
5239.15	8.15	32.8	121.8	5241.15	10.15	44.4	199.0
5239.20	8.20	33.1	123.6	5241.20	10.20	44.6	201.4
5239.25	8.25	33.4	125.3	5241.25	10.25	44.9	203.7
5239.30	8.30	33.7	127.0	5241.30	10.30	45.2	206.0
5239.35	8.35	34.0	128.8	5241.35	10.35	45.5	208.3
5239.40	8.40	34.3	130.5	5241.40	10.40	45.8	210.6
5239.45	8.45	34.6	132.3	5241.45	10.45	46.1	212.9
5239.50	8.50	34.9	134.0	5241.50	10.50	46.4	215.3
5239.55	8.55	35.1	135.7	5241.55	10.55	46.6	217.6
5239.60	8.60	35.4	137.5	5241.60	10.60	46.9	219.9
5239.65	8.65	35.7	139.2	5241.65	10.65	47.2	222.2
5239.70	8.70	36.0	141.0	5241.70	10.70	47.5	224.5
5239.75	8.75	36.3	142.7	5241.75	10.75	47.8	226.8
5239.80	8.80	36.6	144.4	5241.80	10.80	48.1	229.1
5239.85	8.85	36.9	146.2	5241.85	10.85	48.3	231.5
5239.90	8.90	37.2	147.9	5241.90	10.90	48.6	233.8
5239.95	8.95	37.5	149.7	5241.95	10.95	48.9	236.1
5240.00	9.00	37.8	151.4	5242.00	11.00	49.2	238.4
5240.05	9.05	38.1	153.4	5242.05	11.05	49.5	241.0
5240.10	9.10	38.4	155.5	5242.10	11.10	49.8	243.6
5240.15	9.15	38.7	157.5	5242.15	11.15	50.0	246.2
5240.20	9.20	38.9	159.5	5242.20	11.20	50.3	248.8
5240.25	9.25	39.2	161.6	5242.25	11.25	50.6	251.4
5240.30	9.30	39.5	163.6	5242.30	11.30	50.9	254.0
5240.35	9.35	39.8	165.6	5242.35	11.35	51.1	256.6
5240.40	9.40	40.1	167.7	5242.40	11.40	51.4	259.2
5240.45	9.45	40.4	169.7	5242.45	11.45	51.7	261.8
5240.50	9.50	40.7	171.8	5242.50	11.50	52.0	264.4
5240.55	9.55	40.9	173.8	5242.55	11.55	52.2	267.0
5240.60	9.60	41.2	175.8	5242.60	11.60	52.5	269.6
5240.65	9.65	41.5	177.9	5242.65	11.65	52.8	272.2
5240.70	9.70	41.8	179.9	5242.70	11.70	53.1	274.8
5240.75	9.75	42.1	181.9	5242.75	11.75	53.3	277.4
5240.80	9.80	42.4	184.0	5242.80	11.80	53.6	280.0
5240.85	9.85	42.6	186.0	5242.85	11.85	53.9	282.6
5240.90	9.90	42.9	188.0	5242.90	11.90	54.2	285.2
5240.95	9.95	43.2	190.1	5242.95	11.95	54.4	287.8

LOWER DERBY LAKE

ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5243.00	12.00	54.7	290.4	5245.00	14.00	66.3	411.7
5243.05	12.05	55.0	293.3	5245.05	14.05	66.6	415.2
5243.10	12.10	55.3	296.2	5245.10	14.10	66.9	418.6
5243.15	12.15	55.6	299.1	5245.15	14.15	67.2	422.1
5243.20	12.20	55.9	301.9	5245.20	14.20	67.5	425.5
5243.25	12.25	56.2	304.8	5245.25	14.25	67.8	429.0
5243.30	12.30	56.5	307.7	5245.30	14.30	68.0	432.5
5243.35	12.35	56.8	310.6	5245.35	14.35	68.3	435.9
5243.40	12.40	57.1	313.5	5245.40	14.40	68.6	439.4
5243.45	12.45	57.4	316.4	5245.45	14.45	68.9	442.8
5243.50	12.50	57.8	319.3	5245.50	14.50	69.2	446.3
5243.55	12.55	58.1	322.1	5245.55	14.55	69.5	449.8
5243.60	12.60	58.4	325.0	5245.60	14.60	69.8	453.2
5243.65	12.65	58.7	327.9	5245.65	14.65	70.1	456.7
5243.70	12.70	59.0	330.8	5245.70	14.70	70.4	460.1
5243.75	12.75	59.3	333.7	5245.75	14.75	70.6	463.6
5243.80	12.80	59.6	336.6	5245.80	14.80	70.9	467.1
5243.85	12.85	59.9	339.4	5245.85	14.85	71.2	470.5
5243.90	12.90	60.2	342.3	5245.90	14.90	71.5	474.0
5243.95	12.95	60.5	345.2	5245.95	14.95	71.8	477.4
5244.00	13.00	60.8	348.1	5246.00	15.00	72.1	480.9
5244.05	13.05	61.1	351.3	5246.05	15.05	72.4	484.6
5244.10	13.10	61.3	354.5	5246.10	15.10	72.6	488.4
5244.15	13.15	61.6	357.6	5246.15	15.15	72.9	492.1
5244.20	13.20	61.9	360.8	5246.20	15.20	73.2	495.9
5244.25	13.25	62.2	364.0	5246.25	15.25	73.5	499.6
5244.30	13.30	62.5	367.2	5246.30	15.30	73.8	503.3
5244.35	13.35	62.7	370.4	5246.35	15.35	74.0	507.1
5244.40	13.40	63.0	373.5	5246.40	15.40	74.3	510.8
5244.45	13.45	63.3	376.7	5246.45	15.45	74.6	514.6
5244.50	13.50	63.6	379.9	5246.50	15.50	74.9	518.3
5244.55	13.55	63.8	383.1	5246.55	15.55	75.1	522.0
5244.60	13.60	64.1	386.3	5246.60	15.60	75.4	525.8
5244.65	13.65	64.4	389.4	5246.65	15.65	75.7	529.5
5244.70	13.70	64.6	392.6	5246.70	15.70	75.9	533.3
5244.75	13.75	64.9	395.8	5246.75	15.75	76.2	537.0
5244.80	13.80	65.2	399.0	5246.80	15.80	76.5	540.7
5244.85	13.85	65.5	402.2	5246.85	15.85	76.8	544.5
5244.90	13.90	65.8	405.3	5246.90	15.90	77.1	548.2
5244.95	13.95	66.0	408.5	5246.95	15.95	77.3	552.0

LOWER DERBY LAKE

ELEVATION (Ft., msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft., msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5247.00	16.00	77.6	555.7	5249.00	18.00	89.4	722.5
5247.05	16.05	77.9	559.7	5249.05	18.05	89.7	727.1
5247.10	16.10	78.2	563.8	5249.10	18.10	90.0	731.7
5247.15	16.15	78.5	567.8	5249.15	18.15	90.2	736.3
5247.20	16.20	78.7	571.8	5249.20	18.20	90.5	740.9
5247.25	16.25	79.0	575.8	5249.25	18.25	90.8	745.6
5247.30	16.30	79.3	579.9	5249.30	18.30	91.1	750.2
5247.35	16.35	79.6	583.9	5249.35	18.35	91.4	754.8
5247.40	16.40	79.9	587.9	5249.40	18.40	91.6	759.4
5247.45	16.45	80.2	591.9	5249.45	18.45	91.9	764.0
5247.50	16.50	80.5	596.0	5249.50	18.50	92.2	768.6
5247.55	16.55	80.7	600.0	5249.55	18.55	92.5	773.2
5247.60	16.60	81.0	604.0	5249.60	18.60	92.8	777.8
5247.65	16.65	81.3	608.0	5249.65	18.65	93.0	782.4
5247.70	16.70	81.6	612.1	5249.70	18.70	93.3	787.0
5247.75	16.75	81.9	616.1	5249.75	18.75	93.6	791.7
5247.80	16.80	82.2	620.1	5249.80	18.80	93.9	796.3
5247.85	16.85	82.4	624.1	5249.85	18.85	94.2	800.9
5247.90	16.90	82.7	628.2	5249.90	18.90	94.4	805.5
5247.95	16.95	83.0	632.2	5249.95	18.95	94.7	810.1
5248.00	17.00	83.3	636.2	5250.00	19.00	95.0	814.7
5248.05	17.05	83.6	640.5	5250.05	19.05	95.3	819.6
5248.10	17.10	83.9	644.8	5250.10	19.10	95.6	824.5
5248.15	17.15	84.2	649.1	5250.15	19.15	95.8	829.4
5248.20	17.20	84.5	653.5	5250.20	19.20	96.1	834.3
5248.25	17.25	84.8	657.8	5250.25	19.25	96.4	839.2
5248.30	17.30	85.1	662.1	5250.30	19.30	96.7	844.0
5248.35	17.35	85.4	666.4	5250.35	19.35	96.9	848.9
5248.40	17.40	85.7	670.7	5250.40	19.40	97.2	853.8
5248.45	17.45	86.0	675.0	5250.45	19.45	97.5	858.7
5248.50	17.50	86.4	679.4	5250.50	19.50	97.8	863.6
5248.55	17.55	86.7	683.7	5250.55	19.55	98.0	868.5
5248.60	17.60	87.0	688.0	5250.60	19.60	98.3	873.4
5248.65	17.65	87.3	692.3	5250.65	19.65	98.6	878.3
5248.70	17.70	87.6	696.6	5250.70	19.70	98.9	883.2
5248.75	17.75	87.9	700.9	5250.75	19.75	99.1	888.1
5248.80	17.80	88.2	705.2	5250.80	19.80	99.4	892.9
5248.85	17.85	88.5	709.6	5250.85	19.85	99.7	897.8
5248.90	17.90	88.8	713.9	5250.90	19.90	99.9	902.7
5248.95	17.95	89.1	718.2	5250.95	19.95	100.2	907.6

LOWER DERBY LAKE

ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5251.00	20.00	100.5	912.5	5253.00	22.0	112.0	1125.00
5251.05	20.05	100.8	917.7				
5251.10	20.10	101.1	922.8				
5251.15	20.15	101.4	928.0				
5251.20	20.20	101.7	933.2				
5251.25	20.25	102.0	938.4				
5251.30	20.30	102.2	943.5				
5251.35	20.35	102.5	948.7				
5251.40	20.40	102.8	953.9				
5251.45	20.45	103.1	959.0				
5251.50	20.50	103.4	964.2				
5251.55	20.55	103.7	969.4				
5251.60	20.60	104.0	974.5				
5251.65	20.65	104.3	979.7				
5251.70	20.70	104.6	984.9				
5251.75	20.75	104.9	990.1				
5251.80	20.80	105.1	995.2				
5251.85	20.85	105.4	1000.4				
5251.90	20.90	105.7	1005.6				
5251.95	20.95	106.0	1010.7				
5252.00	21.00	106.3	1015.9				
5252.05	21.05	106.6	1021.4				
5252.10	21.10	106.9	1026.8				
5252.15	21.15	107.2	1032.3				
5252.20	21.20	107.4	1037.7				
5252.25	21.25	107.7	1043.2				
5252.30	21.30	108.0	1048.6				
5252.35	21.35	108.3	1054.1				
5252.40	21.40	108.6	1059.5				
5252.45	21.45	108.9	1065.0				
5252.50	21.50	109.2	1070.5				
5252.55	21.55	109.4	1075.9				
5252.60	21.60	109.7	1081.4				
5252.65	21.65	110.0	1086.8				
5252.70	21.70	110.3	1092.3				
5252.75	21.75	110.6	1097.7				
5252.80	21.80	110.9	1103.2				
5252.85	21.85	111.1	1108.6				
5252.90	21.90	111.4	1114.1				
5252.95	21.95	111.7	1119.5				

LADORA LAKE

ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5208.00	0.00	6.3	12.4	5210.00	2.00	11.1	28.7
5208.05	0.05	6.4	12.8	5210.05	2.05	11.2	29.4
5208.10	0.10	6.4	13.1	5210.10	2.10	11.4	30.0
5208.15	0.15	6.5	13.5	5210.15	2.15	11.5	30.6
5208.20	0.20	6.6	13.8	5210.20	2.20	11.7	31.2
5208.25	0.25	6.6	14.2	5210.25	2.25	11.8	31.9
5208.30	0.30	6.7	14.5	5210.30	2.30	12.0	32.5
5208.35	0.35	6.8	14.9	5210.35	2.35	12.1	33.1
5208.40	0.40	6.8	15.2	5210.40	2.40	12.3	33.8
5208.45	0.45	6.9	15.6	5210.45	2.45	12.4	34.4
5208.50	0.50	7.0	15.9	5210.50	2.50	12.6	35.0
5208.55	0.55	7.0	16.3	5210.55	2.55	12.7	35.6
5208.60	0.60	7.1	16.6	5210.60	2.60	12.8	36.3
5208.65	0.65	7.1	16.9	5210.65	2.65	13.0	36.9
5208.70	0.70	7.2	17.3	5210.70	2.70	13.1	37.5
5208.75	0.75	7.3	17.6	5210.75	2.75	13.3	38.1
5208.80	0.80	7.3	18.0	5210.80	2.80	13.4	38.8
5208.85	0.85	7.4	18.3	5210.85	2.85	13.6	39.4
5208.90	0.90	7.5	18.7	5210.90	2.90	13.7	40.0
5208.95	0.95	7.5	19.0	5210.95	2.95	13.9	40.7
5209.00	1.00	7.6	19.4	5211.00	3.00	14.0	41.3
5209.05	1.05	7.8	19.8	5211.05	3.05	14.2	42.1
5209.10	1.10	8.0	20.3	5211.10	3.10	14.3	42.9
5209.15	1.15	8.1	20.8	5211.15	3.15	14.5	43.6
5209.20	1.20	8.3	21.3	5211.20	3.20	14.7	44.4
5209.25	1.25	8.5	21.7	5211.25	3.25	14.9	45.2
5209.30	1.30	8.7	22.2	5211.30	3.30	15.0	46.0
5209.35	1.35	8.8	22.7	5211.35	3.35	15.2	46.8
5209.40	1.40	9.0	23.1	5211.40	3.40	15.4	47.6
5209.45	1.45	9.2	23.6	5211.45	3.45	15.5	48.3
5209.50	1.50	9.4	24.1	5211.50	3.50	15.7	49.1
5209.55	1.55	9.5	24.5	5211.55	3.55	15.9	49.9
5209.60	1.60	9.7	25.0	5211.60	3.60	16.0	50.7
5209.65	1.65	9.9	25.5	5211.65	3.65	16.2	51.5
5209.70	1.70	10.1	25.9	5211.70	3.70	16.4	52.3
5209.75	1.75	10.2	26.4	5211.75	3.75	16.6	53.1
5209.80	1.80	10.4	26.9	5211.80	3.80	16.7	53.8
5209.85	1.85	10.6	27.3	5211.85	3.85	16.9	54.6
5209.90	1.90	10.8	27.8	5211.90	3.90	17.1	55.4
5209.95	1.95	10.9	28.3	5211.95	3.95	17.2	56.2

LADORA LAKE

ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5212.00	4.00	17.4	57.0	5214.00	6.00	25.0	98.7
5212.05	4.05	17.6	57.9	5214.05	6.05	25.2	100.0
5212.10	4.10	17.7	58.9	5214.10	6.10	25.5	101.4
5212.15	4.15	17.9	59.8	5214.15	6.15	25.7	102.8
5212.20	4.20	18.0	60.8	5214.20	6.20	25.9	104.1
5212.25	4.25	18.2	61.7	5214.25	6.25	26.2	105.5
5212.30	4.30	18.3	62.7	5214.30	6.30	26.4	106.9
5212.35	4.35	18.5	63.6	5214.35	6.35	26.6	108.2
5212.40	4.40	18.6	64.6	5214.40	6.40	26.8	109.6
5212.45	4.45	18.8	65.5	5214.45	6.45	27.1	111.0
5212.50	4.50	19.0	66.5	5214.50	6.50	27.3	112.3
5212.55	4.55	19.1	67.4	5214.55	6.55	27.5	113.7
5212.60	4.60	19.3	68.4	5214.60	6.60	27.8	115.1
5212.65	4.65	19.4	69.3	5214.65	6.65	28.0	116.4
5212.70	4.70	19.6	70.2	5214.70	6.70	28.2	117.8
5212.75	4.75	19.7	71.2	5214.75	6.75	28.5	119.2
5212.80	4.80	19.9	72.1	5214.80	6.80	28.7	120.5
5212.85	4.85	20.0	73.1	5214.85	6.85	28.9	121.9
5212.90	4.90	20.2	74.0	5214.90	6.90	29.1	123.3
5212.95	4.95	20.3	75.0	5214.95	6.95	29.4	124.6
5213.00	5.00	20.5	75.9	5215.00	7.00	29.6	126.0
5213.05	5.05	20.7	77.1	5215.05	7.05	29.9	127.6
5213.10	5.10	21.0	78.2	5215.10	7.10	30.1	129.2
5213.15	5.15	21.2	79.3	5215.15	7.15	30.4	130.8
5213.20	5.20	21.4	80.5	5215.20	7.20	30.7	132.4
5213.25	5.25	21.6	81.6	5215.25	7.25	31.0	134.1
5213.30	5.30	21.8	82.8	5215.30	7.30	31.2	135.7
5213.35	5.35	22.1	83.9	5215.35	7.35	31.5	137.3
5213.40	5.40	22.3	85.0	5215.40	7.40	31.8	138.9
5213.45	5.45	22.5	86.2	5215.45	7.45	32.0	140.5
5213.50	5.50	22.8	87.3	5215.50	7.50	32.3	142.1
5213.55	5.55	23.0	88.4	5215.55	7.55	32.6	143.7
5213.60	5.60	23.2	89.6	5215.60	7.60	32.8	145.4
5213.65	5.65	23.4	90.7	5215.65	7.65	33.1	147.0
5213.70	5.70	23.7	91.9	5215.70	7.70	33.4	148.6
5213.75	5.75	23.9	93.0	5215.75	7.75	33.7	150.2
5213.80	5.80	24.1	94.1	5215.80	7.80	33.9	151.8
5213.85	5.85	24.3	95.3	5215.85	7.85	34.2	153.4
5213.90	5.90	24.6	96.4	5215.90	7.90	34.5	155.1
5213.95	5.95	24.8	97.5	5215.95	7.95	34.7	156.7

LADORA LAKE

ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5216.00	8.00	35.0	158.3	5218.00	10.00	46.6	239.4
5216.05	8.05	35.3	160.2	5218.05	10.05	47.0	241.9
5216.10	8.10	35.5	162.0	5218.10	10.10	47.3	244.4
5216.15	8.15	35.8	163.9	5218.15	10.15	47.7	246.9
5216.20	8.20	36.1	165.8	5218.20	10.20	48.0	249.4
5216.25	8.25	36.3	167.7	5218.25	10.25	48.4	251.9
5216.30	8.30	36.6	169.6	5218.30	10.30	48.7	254.4
5216.35	8.35	36.9	171.5	5218.35	10.35	49.1	256.9
5216.40	8.40	37.1	173.3	5218.40	10.40	49.4	259.4
5216.45	8.45	37.4	175.2	5218.45	10.45	49.8	261.9
5216.50	8.50	37.7	177.1	5218.50	10.50	50.1	264.4
5216.55	8.55	37.9	179.0	5218.55	10.55	50.5	266.9
5216.60	8.60	38.2	180.9	5218.60	10.60	50.8	269.4
5216.65	8.65	38.4	182.8	5218.65	10.65	51.2	271.9
5216.70	8.70	38.7	184.6	5218.70	10.70	51.5	274.5
5216.75	8.75	39.0	186.5	5218.75	10.75	51.9	277.0
5216.80	8.80	39.2	188.4	5218.80	10.80	52.2	279.5
5216.85	8.85	39.5	190.3	5218.85	10.85	52.6	282.0
5216.90	8.90	39.8	192.2	5218.90	10.90	52.9	284.5
5216.95	8.95	40.0	194.0	5218.95	10.95	53.3	287.0
5217.00	9.00	40.3	195.9	5219.00	11.00	53.6	289.5
5217.05	9.05	40.6	198.1	5219.05	11.05	54.0	292.3
5217.10	9.10	40.9	200.3	5219.10	11.10	54.3	295.2
5217.15	9.15	41.2	202.4	5219.15	11.15	54.7	298.1
5217.20	9.20	41.6	204.6	5219.20	11.20	55.1	300.9
5217.25	9.25	41.9	206.8	5219.25	11.25	55.5	303.8
5217.30	9.30	42.2	209.0	5219.30	11.30	55.8	306.7
5217.35	9.35	42.5	211.1	5219.35	11.35	56.2	309.5
5217.40	9.40	42.8	213.3	5219.40	11.40	56.6	312.4
5217.45	9.45	43.1	215.5	5219.45	11.45	56.9	315.3
5217.50	9.50	43.5	217.7	5219.50	11.50	57.3	318.1
5217.55	9.55	43.8	219.8	5219.55	11.55	57.7	321.0
5217.60	9.60	44.1	222.0	5219.60	11.60	58.0	323.9
5217.65	9.65	44.4	224.2	5219.65	11.65	58.4	326.7
5217.70	9.70	44.7	226.3	5219.70	11.70	58.8	329.6
5217.75	9.75	45.0	228.5	5219.75	11.75	59.2	332.5
5217.80	9.80	45.3	230.7	5219.80	11.80	59.5	335.3
5217.85	9.85	45.7	232.9	5219.85	11.85	59.9	338.2
5217.90	9.90	46.0	235.0	5219.90	11.90	60.3	341.1
5217.95	9.95	46.3	237.2	5219.95	11.95	60.6	343.9

LADORA LAKE

ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)	ELEVATION (Ft.,msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5220.00	12.00	61.0	346.8	5222.00	14.00	75.1	483.7
5220.05	12.05	61.0	346.8	5222.05	14.05	75.5	487.7
5220.10	12.10	61.0	346.8	5222.10	14.10	75.9	491.6
5220.15	12.15	61.0	346.8	5222.15	14.15	76.3	495.6
5220.20	12.20	61.0	346.8	5222.20	14.20	76.7	499.6
5220.25	12.25	61.0	346.8	5222.25	14.25	77.1	503.5
5220.30	12.30	61.0	346.8	5222.30	14.30	77.5	507.5
5220.35	12.35	61.0	346.8	5222.35	14.35	77.9	511.4
5220.40	12.40	61.0	346.8	5222.40	14.40	78.3	515.4
5220.45	12.45	61.0	346.8	5222.45	14.45	78.7	519.3
5220.50	12.50	61.0	346.8	5222.50	14.50	79.2	523.3
5220.55	12.55	61.0	346.8	5222.55	14.55	79.6	527.3
5220.60	12.60	61.0	346.8	5222.60	14.60	80.0	531.2
5220.65	12.65	61.0	346.8	5222.65	14.65	80.4	535.2
5220.70	12.70	61.0	346.8	5222.70	14.70	80.8	539.1
5220.75	12.75	61.0	346.8	5222.75	14.75	81.2	543.1
5220.80	12.80	61.0	346.8	5222.80	14.80	81.6	547.1
5220.85	12.85	61.0	346.8	5222.85	14.85	82.0	551.0
5220.90	12.90	61.0	346.8	5222.90	14.90	82.4	555.0
5220.95	12.95	61.0	346.8	5222.95	14.95	82.8	558.9
5221.00	13.00	61.0	346.8	5223.00	15.00	83.2	562.9
5221.05	13.05	61.7	353.6	5223.05	15.05	83.6	567.2
5221.10	13.10	62.4	360.5	5223.10	15.10	83.9	571.6
5221.15	13.15	63.1	367.3	5223.15	15.15	84.3	575.9
5221.20	13.20	63.8	374.2	5223.20	15.20	84.7	580.3
5221.25	13.25	64.5	381.0	5223.25	15.25	85.1	584.6
5221.30	13.30	65.2	387.9	5223.30	15.30	85.4	589.0
5221.35	13.35	65.9	394.7	5223.35	15.35	85.8	593.3
5221.40	13.40	66.6	401.6	5223.40	15.40	86.2	597.6
5221.45	13.45	67.3	408.4	5223.45	15.45	86.5	602.0
5221.50	13.50	68.1	415.3	5223.50	15.50	86.9	606.3
5221.55	13.55	68.8	422.1	5223.55	15.55	87.3	610.7
5221.60	13.60	69.5	428.9	5223.60	15.60	87.6	615.0
5221.65	13.65	70.2	435.8	5223.65	15.65	88.0	619.4
5221.70	13.70	70.9	442.6	5223.70	15.70	88.4	623.7
5221.75	13.75	71.6	449.5	5223.75	15.75	88.8	628.1
5221.80	13.80	72.3	456.3	5223.80	15.80	89.1	632.4
5221.85	13.85	73.0	463.2	5223.85	15.85	89.5	636.7
5221.90	13.90	73.7	470.0	5223.90	15.90	89.9	641.1
5221.95	13.95	74.4	476.9	5223.95	15.95	90.2	645.4

LADORA LAKE

ELEVATION (Ft., msl)	STAGE (feet)	AREA (acres)	VOLUME (ac-ft)
5224.00	16.00	90.6	649.8
5224.05	16.05	91.4	654.7
5224.10	16.10	92.3	659.7
5224.15	16.15	93.1	664.6
5224.20	16.20	94.0	669.6
5224.25	16.25	94.8	674.5
5224.30	16.30	95.6	679.5
5224.35	16.35	96.5	684.4
5224.40	16.40	97.3	689.4
5224.45	16.45	98.2	694.3
5224.50	16.50	99.0	699.3
5224.55	16.55	99.8	704.2
5224.60	16.60	100.7	709.2
5224.65	16.65	101.5	714.1
5224.70	16.70	102.4	719.1
5224.75	16.75	103.2	724.0
5224.80	16.80	104.0	729.0
5224.85	16.85	104.9	733.9
5224.90	16.90	105.7	738.9
5224.95	16.95	106.6	743.8
5225.00	17.00	107.4	748.8

HAVANA POND STAGE VOLUME AND STAGE AREA CURVES

ELEV. (FEET)	STAGE (FEET)	SURFACE AREA (ACRES)	VOLUME (ACRE- FEET)	ELEV. (FEET)	STAGE (FEET)	SURFACE AREA (ACRES)	VOLUME (ACRE- FEET)
5241.70	-2.50	0.00	0.00	5244.20	0.00	4.67	4.27
5241.75	-2.45	0.06	0.00	5244.25	0.05	4.89	4.51
5241.80	-2.40	0.12	0.01	5244.30	0.10	5.11	4.76
5241.85	-2.35	0.19	0.01	5244.35	0.15	5.32	5.02
5241.90	-2.30	0.25	0.02	5244.40	0.20	5.54	5.29
5241.95	-2.25	0.31	0.04	5244.45	0.25	5.76	5.57
5242.00	-2.20	0.37	0.06	5244.50	0.30	5.98	5.86
5242.05	-2.15	0.43	0.08	5244.55	0.35	6.20	6.17
5242.10	-2.10	0.50	0.10	5244.60	0.40	6.42	6.48
5242.15	-2.05	0.56	0.13	5244.65	0.45	6.64	6.81
5242.20	-2.00	0.62	0.16	5244.70	0.50	6.86	7.15
5242.25	-1.95	0.68	0.19	5244.75	0.55	7.07	7.50
5242.30	-1.90	0.74	0.22	5244.80	0.60	7.29	7.85
5242.35	-1.85	0.81	0.26	5244.85	0.65	7.51	8.22
5242.40	-1.80	0.87	0.30	5244.90	0.70	7.73	8.61
5242.45	-1.75	0.93	0.35	5244.95	0.75	7.95	9.00
5242.50	-1.70	0.99	0.40	5245.00	0.80	8.17	9.40
5242.55	-1.65	1.05	0.45	5245.05	0.85	8.39	9.81
5242.60	-1.60	1.12	0.50	5245.10	0.90	8.61	10.24
5242.65	-1.55	1.18	0.56	5245.15	0.95	8.82	10.68
5242.70	-1.50	1.24	0.62	5245.20	1.00	9.04	11.12
5242.75	-1.45	1.30	0.68	5245.25	1.05	9.26	11.58
5242.80	-1.40	1.36	0.75	5245.30	1.10	9.48	12.05
5242.85	-1.35	1.43	0.82	5245.35	1.15	9.70	12.53
5242.90	-1.30	1.49	0.89	5245.40	1.20	9.92	13.02
5242.95	-1.25	1.55	0.97	5245.45	1.25	10.14	13.52
5243.00	-1.20	1.61	1.05	5245.50	1.30	10.36	14.03
5243.05	-1.15	1.67	1.13	5245.55	1.35	10.57	14.55
5243.10	-1.10	1.74	1.22	5245.60	1.40	10.79	15.09
5243.15	-1.05	1.80	1.30	5245.65	1.45	11.01	15.63
5243.20	-1.00	1.86	1.39	5245.70	1.50	11.23	16.19
5243.25	-0.95	1.92	1.49	5245.75	1.55	11.48	16.76
5243.30	-0.90	1.98	1.59	5245.80	1.60	11.72	17.34
5243.35	-0.85	2.05	1.69	5245.85	1.65	11.97	17.93
5243.40	-0.80	2.11	1.79	5245.90	1.70	12.21	18.53
5243.45	-0.75	2.17	1.90	5245.95	1.75	12.46	19.15
5243.50	-0.70	2.23	2.01	5246.00	1.80	12.70	19.78
5243.55	-0.65	2.29	2.12	5246.05	1.85	12.95	20.42
5243.60	-0.60	2.36	2.24	5246.10	1.90	13.20	21.08
5243.65	-0.55	2.42	2.36	5246.15	1.95	13.44	21.74
5243.70	-0.50	2.48	2.48	5246.20	2.00	13.69	22.42
5243.75	-0.45	2.70	2.61	5246.25	2.05	13.93	23.11
5243.80	-0.40	2.92	2.75	5246.30	2.10	14.18	23.81
5243.85	-0.35	3.14	2.90	5246.35	2.15	14.42	24.53
5243.90	-0.30	3.36	3.06	5246.40	2.20	14.67	25.26
5243.95	-0.25	3.57	3.24	5246.45	2.25	14.92	25.99
5244.00	-0.20	3.79	3.42	5246.50	2.30	15.16	26.75
5244.05	-0.15	4.01	3.62	5246.55	2.35	15.41	27.51
5244.10	-0.10	4.23	3.82	5246.60	2.40	15.65	28.29
5244.15	-0.05	4.45	4.04	5246.65	2.45	15.90	29.08

HAVANA POND STAGE VOLUME AND STAGE AREA CURVES

ELEV. (FEET)	STAGE (FEET)	SURFACE AREA (ACRES)	VOLUME (ACRE- FEET)	ELEV. (FEET)	STAGE (FEET)	SURFACE AREA (ACRES)	VOLUME (ACRE- FEET)
5246.70	2.50	16.15	29.88	5249.20	5.00	31.05	87.54
5246.75	2.55	16.39	30.69	5249.25	5.05	31.38	89.12
5246.80	2.60	16.64	31.52	5249.30	5.10	31.72	90.70
5246.85	2.65	16.88	32.35	5249.35	5.15	32.05	92.29
5246.90	2.70	17.13	33.20	5249.40	5.20	32.38	93.91
5246.95	2.75	17.37	34.07	5249.45	5.25	32.71	95.53
5247.00	2.80	17.62	34.94	5249.50	5.30	33.05	97.18
5247.05	2.85	17.87	35.83	5249.55	5.35	33.38	98.84
5247.10	2.90	18.11	36.73	5249.60	5.40	33.71	100.52
5247.15	2.95	18.36	37.64	5249.65	5.45	34.05	102.21
5247.20	3.00	18.60	38.56	5249.70	5.50	34.38	103.92
5247.25	3.05	18.85	39.50	5249.75	5.55	34.66	105.65
5247.30	3.10	19.09	40.45	5249.80	5.60	34.94	107.39
5247.35	3.15	19.34	41.41	5249.85	5.65	35.22	109.14
5247.40	3.20	19.59	42.38	5249.90	5.70	35.51	110.91
5247.45	3.25	19.83	43.37	5249.95	5.75	35.79	112.69
5247.50	3.30	20.08	44.37	5250.00	5.80	36.07	114.49
5247.55	3.35	20.32	45.38	5250.05	5.85	36.35	116.30
5247.60	3.40	20.57	46.40	5250.10	5.90	36.63	118.12
5247.65	3.45	20.81	47.43	5250.15	5.95	36.91	119.96
5247.70	3.50	21.06	48.48	5250.20	6.00	37.20	121.81
5247.75	3.55	21.39	49.54	5250.25	6.05	37.48	123.68
5247.80	3.60	21.73	50.62	5250.30	6.10	37.76	125.56
5247.85	3.65	22.06	51.71	5250.35	6.15	38.04	127.46
5247.90	3.70	22.39	52.83	5250.40	6.20	38.32	129.37
5247.95	3.75	22.72	53.95	5250.45	6.25	38.60	131.29
5248.00	3.80	23.06	55.10	5250.50	6.30	38.88	133.23
5248.05	3.85	23.39	56.26	5250.55	6.35	39.17	135.18
5248.10	3.90	23.72	57.44	5250.60	6.40	39.45	137.14
5248.15	3.95	24.06	58.63	5250.65	6.45	39.73	139.12
5248.20	4.00	24.39	59.84	5250.70	6.50	40.01	141.12
5248.25	4.05	24.72	61.07	5250.75	6.55	40.29	143.12
5248.30	4.10	25.06	62.31	5250.80	6.60	40.57	145.14
5248.35	4.15	25.39	63.58	5250.85	6.65	40.85	147.18
5248.40	4.20	25.72	64.85	5250.90	6.70	41.14	149.23
5248.45	4.25	26.05	66.15	5250.95	6.75	41.42	151.29
5248.50	4.30	26.39	67.46	5251.00	6.80	41.70	153.37
5248.55	4.35	26.72	68.79	5251.05	6.85	41.98	155.46
5248.60	4.40	27.05	70.13	5251.10	6.90	42.26	157.57
5248.65	4.45	27.39	71.49	5251.15	6.95	42.54	159.69
5248.70	4.50	27.72	72.87	5251.20	7.00	42.83	161.82
5248.75	4.55	28.05	74.26	5251.25	7.05	43.11	163.97
5248.80	4.60	28.39	75.68	5251.30	7.10	43.39	166.13
5248.85	4.65	28.72	77.10	5251.35	7.15	43.67	168.31
5248.90	4.70	29.05	78.55	5251.40	7.20	43.95	170.50
5248.95	4.75	29.38	80.01	5251.45	7.25	44.23	172.71
5249.00	4.80	29.72	81.49	5251.50	7.30	44.51	174.92
5249.05	4.85	30.05	82.98	5251.55	7.35	44.80	177.16
5249.10	4.90	30.38	84.49	5251.60	7.40	45.08	179.40
5249.15	4.95	30.72	86.02	5251.65	7.45	45.36	181.67

HAVANA POND STAGE VOLUME AND STAGE AREA CURVES

ELEV. (FEET)	STAGE (FEET)	SURFACE AREA (ACRES)	VOLUME (ACRE- FEET)
5251.70	7.50	45.64	183.94
5251.75	7.55	45.92	186.23
5251.80	7.60	46.19	188.53
5251.85	7.65	46.47	190.85
5251.90	7.70	46.75	193.18
5251.95	7.75	47.03	195.52
5252.00	7.80	47.30	197.88
5252.05	7.85	47.58	200.25
5252.10	7.90	47.86	202.64
5252.15	7.95	48.13	205.04
5252.20	8.00	48.41	207.45
5252.25	8.05	48.69	209.88
5252.30	8.10	48.96	212.32
5252.35	8.15	49.24	214.78
5252.40	8.20	49.52	217.25
5252.45	8.25	49.79	219.73
5252.50	8.30	50.07	222.22
5252.55	8.35	50.35	224.74
5252.60	8.40	50.63	227.26
5252.65	8.45	50.90	229.80
5252.70	8.50	51.18	232.35
5252.75	8.55	51.46	234.92
5252.80	8.60	51.73	237.50
5252.85	8.65	52.01	240.09
5252.90	8.70	52.29	242.70
5252.95	8.75	52.57	245.32
5253.00	8.80	52.84	247.95
5253.05	8.85	53.12	250.60
5253.10	8.90	53.40	253.27
5253.15	8.95	53.67	255.94
5253.20	9.00	53.95	258.63
5253.25	9.05	54.23	261.34
5253.30	9.10	54.50	264.06
5253.35	9.15	54.78	266.79
5253.40	9.20	55.06	269.53
5253.45	9.25	55.33	272.29
5253.50	9.30	55.61	275.07
5253.55	9.35	55.89	277.85
5253.60	9.40	56.17	280.66
5253.65	9.45	56.44	283.47
5253.70	9.50	56.72	286.30

RMA MONTHLY LAKE STAGE AND METER READING DATA OCTOBER 1985-NOVEMBER 1987

LAKE STAGES AND METER READINGS

Month	ATMOSPHERIC				LAKE STAGES (FEET)				METER READINGS		
	Precip. (Inches)	Evap (Inches)	Upper Derby	Lower Derby	Ladora Lake	Mary Lake	Havana Pond	SIP (gal)	Ladora (gal)		
10/85	.85	2.73	2.2	16.9	11.8	1.12	3.10	387,400	2,963,700		
11/85	.82	1.89	1.8	16.4	12.3	0.95	2.01	309,500	2,867,000		
12/85	.47	.63	1.4	16.3	12.5	1.38	.35	206,000	2,288,300		
01/86	.16	.49	1.4	16.0	12.4	1.54	0	188,400	2,845,300		
02/86	.57	.63	1.1	15.8	12.5	1.61	0	95,000	309,600		
03/86	.46	1.12	0.6	15.7	12.5	1.59	0	164,600	215,600		
04/86	1.78	2.24	0	15.3	12.4	1.48	0	447,700	745,200		
05/86	1.36	3.50	0.8	16.2	12.4	1.56	.70	602,300	870,700		
06/86	1.16	5.75	0	16.0	12.3	1.39	1.38	507,100	1,036,300		
07/86	1.53	6.15	0	15.4	11.9	1.02	1.43	386,700	1,522,700		
08/86	.82	5.45	0	16.4	11.6	0.67	2.07	266,100	1,209,100		
09/86	.50	4.46	0	15.1	11.5	0.35	1.75	182,400	954,400		
10/86	1.17	2.73	0	15.8	11.85	0.09	1.39	297,200	98,000		
11/86	.85	1.89	0	15.4	11.9	0.21	3.01	446,400	211,700		
12/86	.16	.63	0	15.0	12.2	0.45	1.07	534,300	394,800		
01/87	.38	.49	0	14.7	12.3	0.45	0.40	240,400	394,800		
02/87	.83	.63	0	14.4	12.3	0.60	0.82	205,300	1,138,800		
03/87	.96	1.12	0	14.3	12.4	0.83	1.33	309,500	1,020,200		
04/87	.74	2.24	0	14.2	12.4	0.96	1.44	400,400	499,100		
05/87	4.13	3.50	0	14.2	12.3	0.91	1.60	338,000	411,900		
06/87	2.90	6.68	0	14.4	12.3	0.80	3.31	128,400	missing		
07/87	.80	6.78	1.3	16.9	12.4	1.00	4.33	327,600	missing		
08/87	1.62	5.63	0	16.1	12.0	1.25	2.57	387,200	missing		
09/87	.47	6.20	0	15.9	11.7	0.96	2.87	295,500	missing		
10/87	1.03	3.60	0	15.3	11.6	0.67	1.89	310,200	missing		
11/87	1.20	1.89	0	14.7	11.7	0.52	2.72	229,600	missing		
12/87	1.30	0.63	0	14.6	12.0	0.62	2.15				

DAILY PRECIPITATION DATA FOR THE RMA VICINITY OCTOBER 1985-NOVEMBER 1987

ROCKY MOUNTAIN ARSENAL MONTHLY PRECIPITATION

OCTOBER, 1945

NOVEMBER, 1945

DECEMBER, 1945

DAY	WHA GAGE	SNIA GAGE	DENVER AIRPORT	AVERAGE	DAY	WHA GAGE	SNIA GAGE	DENVER AIRPORT	AVERAGE	DAY	WHA GAGE	SNIA GAGE	DENVER AIRPORT	AVERAGE
1		0.00	0.00	0.00	1	0.00	0.03	0.00	0.01	1	0.00	0.00	0.00	0.00
2		0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00
3		0.00	0.00	0.00	3	0.00	0.00	0.00	0.00	3	0.01	0.07	0.00	0.03
4		0.00	0.00	0.00	4	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00
5		0.00	0.00	0.00	5	0.00	0.02	0.03	0.02	5	0.00	0.00	0.00	0.00
6		0.00	0.00	0.00	6	0.00	0.00	0.00	0.00	6	0.00	0.00	0.00	0.00
7		0.01	0.00	0.01	7	0.02	0.00	0.00	0.00	7	0.01	0.00	0.00	0.00
8		0.02	0.00	0.01	8	0.00	0.00	0.00	0.00	8	0.00	0.00	0.15	0.05
9		0.01	0.00	0.01	9	0.00	0.00	0.37	0.19	9	0.00	0.00	0.28	0.09
10	0.00	0.11	0.00	0.04	10	0.00	0.00	0.01	0.00	10	0.00	0.00	0.21	0.07
11	0.20	0.19	0.12	0.17	11	0.00	0.00	0.00	0.00	11	0.00	0.00	0.01	0.00
12	0.00	0.02	0.00	0.01	12	0.03	0.00	0.02	0.02	12	0.00	0.00	0.00	0.00
13	0.06	0.14	0.27	0.16	13	0.05	0.26	0.00	0.10	13	0.07	0.00	0.00	0.02
14	0.08	0.16	0.00	0.08	14	0.05	0.01	0.13	0.06	14	0.32	0.26	0.00	0.19
15	0.00	0.00	0.00	0.00	15	0.00	0.06	0.16	0.07	15	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	16	0.29	0.31	0.00	0.20	16	0.00	0.00	0.00	0.00
17	0.00	0.40	0.00	0.13	17	0.03	0.01	0.00	0.01	17	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	18	0.00	0.00	0.05	0.02	18	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	19	0.00	0.01	0.17	0.06	19	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	23	0.00	0.00	0.01	0.00	23	0.00	0.01	0.00	0.01
24	0.00	0.00	0.00	0.00	24	0.02	0.01	0.00	0.01	24	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	25	0.03	0.02	0.00	0.02	25	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	28	0.00	0.01	0.00	0.00	28	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00
31	0.16	0.21	0.30	0.25	31	0.00	0.00	0.05	0.02	31	0.00	0.00	0.00	0.00
TOTALS	0.50	1.27	0.77	0.85	TOTALS	0.50	0.75	1.20	0.82	TOTALS	0.41	0.33	0.66	0.47

FOOT MOUNTAIN ARSENAL MONTHLY PRECIPITATION

JANUARY, 1966

FEBRUARY, 1966

MARCH, 1966

DAY	WHA GAGE	SMA GAGE	DENVER AIRPORT	AVERAGE	DAY	WHA GAGE	SMA GAGE	DENVER AIRPORT	AVERAGE	DAY	WHA GAGE	SMA GAGE	DENVER AIRPORT	AVERAGE
1	0.00		0.00	0.00	1	0.00		0.00	0.00	1	0.00		0.00	0.00
2	0.00		0.00	0.00	2	0.00		0.00	0.00	2	0.00		0.00	0.00
3	0.00		0.00	0.00	3	0.10		0.00	0.05	3	0.00		0.00	0.00
4	0.00		0.00	0.00	4	0.00		0.00	0.00	4	0.00		0.00	0.00
5	0.00		0.00	0.00	5	0.03		0.05	0.04	5	0.00		0.00	0.00
6	0.00		0.14	0.07	6	0.00		0.10	0.05	6	0.00		0.00	0.00
7	0.01		0.02	0.01	7	0.00		0.02	0.01	7	0.00		0.00	0.00
8	0.00		0.00	0.00	8	0.00		0.01	0.01	8	0.00		0.00	0.00
9	0.00		0.00	0.00	9	0.00		0.07	0.04	9	0.00		0.00	0.00
10	0.00		0.00	0.00	10	0.00		0.00	0.00	10	0.00		0.00	0.00
11	0.00		0.00	0.00	11	0.00		0.00	0.00	11	0.00		0.00	0.00
12	0.00		0.00	0.00	12	0.00		0.00	0.00	12	0.07		0.05	0.05
13	0.00		0.00	0.00	13	0.00		0.00	0.00	13	0.00		0.00	0.00
14	0.00		0.00	0.00	14	0.00		0.00	0.00	14	0.01		0.00	0.01
15	0.01		0.00	0.01	15	0.00		0.00	0.00	15	0.00		0.01	0.01
16	0.00		0.00	0.00	16	0.00		0.00	0.00	16	0.02		0.06	0.04
17	0.00		0.00	0.00	17	0.00		0.00	0.00	17	0.25		0.16	0.21
18	0.00		0.00	0.00	18	0.00		0.00	0.00	18	0.00		0.02	0.01
19	0.00		0.00	0.00	19	0.06		0.00	0.03	19	0.13		0.12	0.13
20	0.00		0.00	0.00	20	0.21		0.31	0.26	20	0.00		0.01	0.01
21	0.00		0.00	0.00	21	0.00		0.00	0.00	21	0.00		0.00	0.00
22	0.00		0.00	0.00	22	0.00		0.05	0.00	22	0.00		0.00	0.00
23	0.00		0.00	0.00	23	0.00		0.00	0.00	23	0.00		0.00	0.00
24	0.00		0.00	0.00	24	0.00		0.00	0.00	24	0.00		0.00	0.00
25	0.00		0.00	0.00	25	0.00		0.00	0.00	25	0.00		0.00	0.00
26	0.00		0.00	0.00	26	0.00		0.00	0.00	26	0.00		0.00	0.00
27	0.00		0.00	0.00	27	0.00		0.01	0.01	27	0.00		0.00	0.00
28	0.00		0.00	0.00	28	0.00		0.00	0.00	28	0.00		0.00	0.00
29	0.00		0.00	0.00	29	0.00		0.00	0.00	29	0.00		0.00	0.00
30	0.00		0.00	0.00	30	0.00		0.00	0.00	30	0.00		0.00	0.00
31	0.00		0.00	0.00	31	0.00		0.00	0.00	31	0.00		0.00	0.00
TOTALS	0.10		0.22	0.16	TOTALS	0.48		0.60	0.57	TOTALS	0.48		0.60	0.46

EGGY MOUNTAIN ANNUAL MONTHLY PRECIPITATION

APRIL, 1966

MAY, 1966

JUNE, 1966

DAY	HMA GAGE	SMA GAGE	DENVER AIRPORT	AVERAGE	DAY	HMA GAGE	SMA GAGE	DENVER AIRPORT	AVERAGE	DAY	HMA GAGE	SMA GAGE	DENVER AIRPORT	AVERAGE
1	0.59	0.09	0.09	0.09	1	0.00	0.00	0.00	0.00	1	0.02	0.07	0.00	0.06
2	0.99	0.00	0.43	0.47	2	0.00	0.00	0.00	0.00	2	0.02	0.14	0.04	0.07
3	0.41	0.00	0.37	0.46	3	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00
4	0.04	0.00	0.00	0.01	4	0.00	0.00	0.00	0.00	4	0.05	0.03	0.04	0.04
5	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	6	0.00	0.00	0.00	0.00	6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	7	0.00	0.00	0.00	0.00	7	0.03	0.01	0.01	0.02
8	0.04	0.00	0.03	0.02	8	0.23	0.34	0.29	0.29	8	0.00	0.05	0.09	0.05
9	0.00	0.00	0.23	0.10	9	0.00	0.01	0.00	0.00	9	0.32	0.00	0.12	0.22
10	0.01	0.00	0.00	0.00	10	0.00	0.00	0.00	0.00	10	0.53	0.00	0.30	0.46
11	0.15	0.00	0.12	0.09	11	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	13	0.00	0.00	0.00	0.00	13	0.00	0.00	0.01	0.01
14	0.00	0.00	0.00	0.00	14	0.00	0.01	0.01	0.01	14	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	15	0.53	0.27	0.20	0.37	15	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	16	0.52	0.57	0.64	0.61	16	0.21	0.00	0.10	0.16
17	0.22	0.20	0.51	0.34	17	0.00	0.01	0.01	0.01	17	0.00	0.00	0.00	0.00
18	0.01	0.00	0.02	0.01	18	0.00	0.00	0.00	0.00	18	0.00	0.00	0.19	0.10
19	0.00	0.00	0.00	0.01	19	0.00	0.00	0.00	0.00	19	0.00	0.00	0.00	0.00
20	0.11	0.00	0.10	0.07	20	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00
21	0.09	0.19	0.02	0.10	21	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00
26	0.04	0.00	0.16	0.09	26	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00
TOTALS	2.19	0.56	2.57	1.78	TOTALS	1.44	1.35	1.30	1.36	TOTALS	1.18	0.30	1.07	1.16

POCITY MOUNTAIN ARENAL MONTHLY PRECIPITATION

JULY, 1986

AUGUST, 1986

SEPTEMBER, 1986

DAY	NRMA GAGE	SRMA GAGE	DENVER AIRPORT	AVERAGE	DAY	NRMA GAGE	SRMA GAGE	DENVER AIRPORT	AVERAGE
1	0.00		0.00	0.00	1	0.00		0.00	0.00
2	0.05		0.00	0.03	2	0.01		0.02	0.02
3	0.00		0.00	0.00	3	0.00		0.00	0.00
4	0.00		0.01	0.01	4	0.00		0.00	0.00
5	0.22		0.21	0.22	5	0.00		0.00	0.00
6	0.01		0.03	0.02	6	0.05		0.13	0.09
7	0.00		0.00	0.00	7	0.13		0.13	0.13
8	0.00		0.00	0.00	8	0.00	0.00	0.03	0.01
9	0.00		0.00	0.00	9	0.00	0.00	0.00	0.00
10	0.00		0.04	0.02	10	0.00	0.00	0.00	0.00
11	0.01		0.00	0.01	11	0.00	0.00	0.00	0.00
12	0.00		0.00	0.00	12	0.00	0.00	0.00	0.00
13	0.01		0.00	0.01	13	0.00	0.00	0.00	0.00
14	0.00		0.00	0.00	14	0.00	0.00	0.00	0.00
15	0.00		0.00	0.00	15	0.00	0.00	0.00	0.00
16	0.16	0.15	0.08	0.13	16	0.00	0.00	0.00	0.00
17	0.35	0.78	0.89	0.67	17	0.00	0.00	0.00	0.00
18	0.02	0.03	0.02	0.02	18	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	19	0.00	0.00	0.00	0.00
20	0.30	0.29	0.30	0.30	20	0.00	0.00	0.00	0.00
21	0.09	0.00	0.02	0.04	21	0.07	0.00	0.00	0.02
22	0.06	0.05	0.11	0.07	22	0.25	0.19	0.05	0.16
23	0.00	0.00	0.00	0.00	23	0.01	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	24	0.06	0.05	0.06	0.06
25	0.01	0.00	0.00	0.00	25	0.01	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	29	0.00	0.00	0.01	0.00
30	0.00	0.00	0.00	0.00	30		0.00	0.00	0.00
31	0.00	0.00	0.00	0.00					
TOTALS	1.30	1.30	1.69	1.53	TOTALS	0.59	0.24	0.43	0.50

ROCKY MOUNTAIN ARSENAL MONTHLY PRECIPITATION

OCTOBER, 1986

NOVEMBER, 1986

DECEMBER, 1986

DAY	WMA GAGE	SMA GAGE	DENVER AIRPORT	AVERAGE	DAY	WMA GAGE	SMA GAGE	DENVER AIRPORT	AVERAGE	DAY	WMA GAGE	SMA GAGE	DENVER AIRPORT	AVERAGE
1	0.00	0.00	0.00	0.00	1	0.00	0.17	0.30	0.24	1	0.00	0.00	0.00	0.00
2	0.03	0.03	0.03	0.03	2	0.00	0.16	0.00	0.00	2	0.00	0.00	0.00	0.00
3	0.26	0.21	0.21	0.24	3	0.00	0.01	0.00	0.01	3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	6	0.00	0.00	0.13	0.07	6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	7	0.00	0.00	0.17	0.09	7	0.01	0.07	0.11	0.06
8	0.05	0.11	0.11	0.08	8	0.00	0.22	0.00	0.11	8	0.01	0.04	0.10	0.05
9	0.03	0.03	0.03	0.03	9	0.00	0.04	0.00	0.02	9	0.00	0.03	0.09	0.04
10	0.28	0.43	0.43	0.36	10	0.00	0.00	0.00	0.00	10	0.00	0.00	0.00	0.00
11	0.01	0.21	0.21	0.11	11	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00	0.00
12	0.05	0.00	0.00	0.03	12	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00
13	0.04	0.00	0.00	0.02	13	0.00	0.00	0.00	0.00	13	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	14	0.00	0.00	0.00	0.00	14	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	15	0.00	0.00	0.00	0.00	15	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	17	0.00	0.00	0.00	0.00	17	0.00	0.00	0.50	0.00
18	0.00	0.00	0.00	0.00	18	0.00	0.00	0.00	0.00	18	0.00	0.00	0.00	0.00
19	0.01	0.01	0.01	0.01	19	0.00	0.00	0.01	0.00	19	0.00	0.00	0.00	0.00
20	0.05	0.05	0.05	0.05	20	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00
22	0.07	0.02	0.02	0.05	22	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00
23	0.14	0.19	0.19	0.17	23	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00
24	0.01	0.00	0.00	0.01	24	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00	29	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00	30	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	31	0.14	0.15	0.44	0.24	31	0.00	0.00	0.00	0.00
TOTALS	0.60	1.04	1.29	1.17	TOTALS	0.14	0.75	1.05	0.85	TOTALS	0.02	0.14	0.31	0.16

FOOT MOUNTAIN ARENAL MONTHLY PRECIPITATION

JANUARY, 1987

FEBRUARY, 1987

MARCH, 1987

DAY	NEPA GAGE	SRNA GAGE	DENVER AIRPORT	AVERAGE	DAY	NEPA GAGE	SRNA GAGE	DENVER AIRPORT	AVERAGE	DAY	NEPA GAGE	SRNA GAGE	DENVER AIRPORT	AVERAGE
1	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	6	0.00	0.00	0.00	0.00	6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	7	0.00	0.00	0.00	0.00	7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	8	0.00	0.00	0.00	0.00	8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	10	0.00	0.00	0.00	0.00	10	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	13	0.00	0.00	0.00	0.00	13	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	14	0.00	0.00	0.00	0.00	14	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	15	0.00	0.00	0.00	0.00	15	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	17	0.00	0.00	0.00	0.00	17	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	18	0.00	0.00	0.00	0.00	18	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	19	0.00	0.00	0.00	0.00	19	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00	21	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00	22	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00	23	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00	24	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00	25	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00	26	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00						29	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00						30	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00						31	0.00	0.00	0.00	0.00
TOTALS	0.16	0.29	0.68	0.38	TOTALS	0.65	0.62	1.21	0.83	TOTALS	1.02	0.52	1.34	0.96

FOOT MOUNTAIN AERIAL MONTHLY PRECIPITATION

APRIL, 1987

MAY, 1987

JUNE, 1987

DAY	NWA GAGE	SENA GAGE	DENVER AIRPORT	AVERAGE	DAY	NWA GAGE	SENA GAGE	DENVER AIRPORT	AVERAGE	DAY	NWA GAGE	SENA GAGE	DENVER AIRPORT	AVERAGE
1	0.00	0.60	0.20	0.07	1	0.05	0.08	0.20	0.11	1	0.00	0.00	0.00	0.00
2	0.09	0.68	0.01	0.06	2	6.44	0.36	0.44	0.41	2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	3	0.59	0.38	0.55	0.51	3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	4	0.06	0.03	0.05	0.05	4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	5	0.09	0.13	0.12	0.11	5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	6	0.00	0.00	0.01	0.00	6	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	7	0.00	0.00	0.00	0.00	7	0.60	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	8	0.01	0.00	0.00	0.00	8	0.65	0.94	1.76	0.92
9	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00	9	1.07	0.07	0.12	0.42
10	0.00	0.00	0.00	0.00	10	0.01	0.60	0.00	0.00	10	0.07	0.00	0.00	0.02
11	0.00	0.00	0.00	0.00	11	0.00	0.00	0.01	0.00	11	0.00	0.00	0.00	0.00
12	0.21	0.25	0.49	0.32	12	0.00	0.00	0.03	0.01	12	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	13	0.00	0.00	0.00	0.00	13	0.00	0.00	0.01	0.00
14	0.00	0.00	0.00	0.00	14	0.00	0.63	0.64	0.02	14	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	15	0.00	0.00	0.00	0.00	15	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00	16	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	17	0.06	0.10	0.16	0.11	17	0.03	0.00	0.00	0.01
18	0.00	0.00	0.00	0.00	18	0.00	0.00	0.00	0.00	18	0.13	0.22	0.20	0.16
19	0.00	0.00	0.00	0.00	19	0.30	0.07	0.18	0.16	19	0.00	0.00	0.00	0.00
20	0.32	0.23	0.25	0.27	20	0.29	0.35	0.43	0.38	20	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	21	0.51	0.40	0.48	0.46	21	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	22	0.00	0.00	0.01	0.00	22	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	23	0.96	1.27	1.33	1.19	23	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	24	0.45	0.27	0.57	0.43	24	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	25	0.00	0.01	0.00	0.00	25	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	26	0.00	0.28	0.00	0.09	26	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00	27	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	28	0.00	0.00	0.00	0.00	28	0.36	0.47	0.53	0.45
29	0.00	0.00	0.00	0.00	29	0.00	0.01	0.01	0.01	29	0.94	0.35	0.00	0.70
30	0.00	0.00	0.00	0.00	30	0.02	0.14	0.04	0.07	30	0.02	0.55	0.00	0.19
TOTALS	0.62	0.56	1.03	0.74	TOTALS	3.84	3.91	4.64	4.13	TOTALS	2.67	2.60	3.42	2.90

ROCKY MOUNTAIN ARSENAL MONTHLY PRECIPITATION

JULY, 1987

AUGUST, 1987

SEPTEMBER, 1987

DAY	WMA GAGE	SMA GAGE	DENVER AIRPORT	AVERAGE	DAY	WMA GAGE	SMA GAGE	DENVER AIRPORT	AVERAGE	DAY	WMA GAGE	SMA GAGE	DENVER AIRPORT	AVERAGE
1	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	1	0.00	0.00	0.01	0.00
2	0.00	0.05	0.03	0.03	2	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00
4	0.01	0.01	0.00	0.01	4	0.00	0.00	0.00	0.00	4	0.10	0.02	0.05	0.05
5	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00	5	0.00	0.01	0.02	0.01
6	0.00	0.00	0.00	0.00	6	0.00	0.00	0.00	0.00	6	0.00	0.01	0.00	0.00
7	0.00	0.00	0.00	0.00	7	0.00	0.00	0.05	0.02	7	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	8	0.00	0.00	0.00	0.00	8	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00	9	0.01		0.00	0.01
10	0.00	0.00	0.00	0.00	10	0.00	0.00	0.00	0.00	10	0.02		0.01	0.02
11	0.00	0.03	0.02	0.02	11	0.00	0.00	0.00	0.00	11	0.00		0.00	0.00
12	0.26	0.30	0.23	0.26	12	0.00	0.00	0.00	0.00	12	0.00		0.00	0.00
13	0.01	0.00	0.00	0.00	13	0.05	0.04	0.02	0.04	13	0.00		0.00	0.00
14	0.02	0.00	0.00	0.01	14	0.00	0.00	0.00	0.00	14	0.00		0.39	0.24
15	0.05	0.00	0.00	0.02	15	0.00	0.00	0.02	0.01	15	0.01		0.01	0.01
16	0.03	0.00	0.00	0.01	16	0.00	0.00	0.00	0.00	16	0.00		0.01	0.01
17	0.00	0.00	0.00	0.00	17	0.00	0.00	0.00	0.00	17	0.04		0.19	0.12
18	0.00	0.00	0.00	0.00	18	0.00	0.00	0.00	0.00	18	0.00		0.00	0.00
19	0.01	0.00	0.00	0.00	19	0.00	0.00	0.00	0.00	19	0.00		0.00	0.00
20	0.00	0.00	0.00	0.00	20	0.00	0.00	0.00	0.00	20	0.00		0.00	0.00
21	0.00	0.00	0.00	0.00	21	0.00	0.11	0.27	0.15	21	0.00		0.00	0.00
22	0.00	0.00	0.00	0.00	22	0.00	0.44	0.76	0.63	22	0.00		0.00	0.00
23	0.00	0.00	0.00	0.14	23	0.19	0.09	0.11	0.13	23	0.00		0.00	0.00
24	0.00	0.00	0.00	0.13	24	0.00		0.09	0.05	24	0.00		0.00	0.00
25	0.00	0.00	0.00	0.00	25	0.00		0.30	0.16	25	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.02	26	0.23		0.37	0.30	26	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	27	0.25		0.00	0.13	27	0.00	0.00	0.00	0.00
28	0.03	0.15	0.03	0.07	28	0.00		0.00	0.00	28	0.00	0.00	0.00	0.00
29	0.04	0.12	0.01	0.05	29	0.00		0.00	0.00	29	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	30	0.00		0.00	0.00	30	0.00	0.00	0.00	0.00
31	0.05	0.01	0.00	0.02	31	0.00		0.00	0.00			0.00	0.00	0.00
TOTALS	0.90	0.74	0.76	0.80	TOTALS	1.54	0.68	2.90	1.62	TOTALS	0.27	0.04	0.70	0.47

BOCAY MOUNTAIN ARSENAL MONTHLY PRECIPITATION

OCTOBER, 1987

NOVEMBER, 1987

DAY	WMA GAGE	SENA GAGE	DENVER AIRPORT	AVERAGE	DAY	WMA GAGE	SENA GAGE	DENVER AIRPORT	AVERAGE
1	0.00	0.00	0.00	0.00	1			0.00	0.00
2	0.00	0.00	0.00	0.00	2	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	3	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	4	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	5	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	6	0.02	0.02	0.04	0.05
7	0.00	0.00	0.00	0.00	7	0.17	0.14	0.27	0.19
8	0.00	0.00	0.00	0.00	8	0.00	0.01	0.01	0.01
9	0.00	0.00	0.00	0.00	9	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	10	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	11	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	12	0.00	0.00	0.00	0.00
13	0.21		0.50	0.39	13	0.00	0.00	0.00	0.00
14	0.00		0.04	0.02	14	0.31	0.35	0.38	0.35
15	0.00		0.00	0.00	15	0.33	0.02	0.57	0.31
16	0.00		0.01	0.01	16	0.00	0.00	0.00	0.00
17	0.00		0.00	0.00	17	0.00		0.00	0.00
18	0.00		0.00	0.00	18	0.00		0.00	0.00
19	0.00		0.00	0.00	19	0.00		0.00	0.00
20	0.00		0.30	0.00	20	0.00		0.00	0.00
21	0.00		0.00	0.00	21	0.00		0.00	0.00
22	0.00		0.00	0.00	22	0.00		0.00	0.00
23	0.00		0.00	0.00	23	0.00		0.00	0.00
24	0.00		0.00	0.00	24	0.00		0.00	0.00
25	0.00		0.00	0.00	25	0.00		0.00	0.00
26			0.00	0.00	26	0.23		0.34	0.29
27			0.00	0.00	27	0.02		0.01	0.02
28			0.00	0.00	28	0.00		0.00	0.00
29			0.00	0.00	29	0.00		0.00	0.00
30			0.61	0.61	30	0.00	0.00	0.00	0.00
31			0.00	0.00					
TOTALS	0.21	0.00	1.24	1.03	TOTALS	1.08	0.60	1.62	1.20

MONTHLY CHERRY CREEK PAN EVAPORATION DATA 1959-1987

Creek Dam

Pan Evaporation In Inches

Table Assumes Daily Lake Evaporation will be .7 of the pan valve

Year/Month	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1959		1.10	3.90	7.00	7.00	9.50	12.10	11.60	6.92	3.00	2.00	1.40	66.2
1960	1.40	1.00	1.40	4.40	8.20	10.30	11.90	12.30	8.50	4.10	2.90	1.20	67.6
1961	1.24	1.20	2.40	5.77	7.69	9.20	10.80	10.80	5.55	4.60	1.10	0.79	61.1
1962	.60	.60	1.55	3.33	7.80	9.20	11.80	12.20	8.40	6.30	3.00	1.50	66.3
1963	1.30	1.70	2.50	5.60	7.10	10.00	10.80	9.20	6.50	4.90	3.10	.88	63.6
1964	.88	1.30	2.00	4.00	6.90	11.70	10.00	8.80	7.60	5.80	2.40	.98	62.4
1965	.73	1.20	1.70	3.40	5.70	7.40	8.60	8.80	5.50	2.60	2.30	.94	48.9
1966	.76	.77	1.50	2.70	7.92	8.05	8.40	8.80	6.10	2.80	1.49	1.07	50.4
1967	.64	.85	1.70	3.75	5.83	6.10	6.80	7.00	6.40	3.72	1.90	1.00	45.7
1968	.61	.80	1.40	5.35	6.50	9.40	9.80	7.20	6.10	5.60	2.20	1.10	55.5
1969	.63	.64	.55	5.70	6.31	6.60	7.80	8.64	5.74	3.60	2.30	1.20	49.7
1970	.70	.75	1.50	4.50	7.20	8.80	8.60	8.20	6.30	3.00	1.90	1.70	53.2
1971	.70	.80	1.80	3.50	6.70	8.77	7.97	8.31	6.00	3.90	2.30	1.00	51.8
1972	.80	.80	1.50	3.80	6.61	7.94	8.75	8.70	5.25	4.27	2.50	.75	51.7
1973	.70	.90	1.80	3.50	6.80	8.57	8.22	8.34	5.37	4.10	1.80	.80	50.9
1974	.80	.80	1.5	4.00	8.32	7.50	9.70	7.90	5.69	4.00	1.80	.86	52.8
1975	.80	.80	1.0	3.5	6.00	7.88	9.45	8.33	6.23	6.43	2.0	.80	53.2
1976	.60	1.2	1.9	3.6	5.85	8.80	9.69	7.72	5.40	3.54	2.0	.80	51.1
1977	.60	.70	1.6	3.1	8.06	9.05	9.03	7.35	8.15	6.13	2.10	1.30	57.2
1978	.70	.90	1.6	5.6	6.69	8.76	10.54	8.96	8.64	5.60	2.70	.90	61.7
1979	.70	.90	1.60	3.20	6.00	8.20	9.33	7.97	6.48	4.46	2.00	.90	51.7
1980	.70	.90	1.60	3.20	6.75	10.33	11.05	8.45	7.04	5.8	2.70	1.00	59.5
1981	.80	.90	1.60	5.14	5.46	8.72	9.53	7.17	6.74	4.60	2.70	.90	53.7
1982	.70	.90	1.70	4.00	5.90	7.26	8.81	7.30	5.79	3.67	2.70	.90	49.6
1983	.70	.90	1.60	3.20	5.00	4.29	10.41	8.59	8.85	8.07	2.70	.90	55.2
1984	.70	.90	1.60	3.20	5.00	6.93	10.48	7.34	6.07	4.10	2.70	.90	49.9
1985	.70	.90	1.60	3.20	7.00	9.72	11.80	8.17	6.96	3.90	2.70	.90	
1986	.70	.90	1.6	3.2	5.0	8.22	8.97	7.78	6.37	3.90	2.70	.90	
1987	.70	.90	1.6	3.2	5.0	9.54	9.69	8.04*	8.86*	5.14*	2.70	.90	

27 Year avg

1959-85	.93	1.71	4.12	6.70	8.47	9.71	8.67	6.59	4.51	2.23	1.01	54.98
Evap in/mo	-53	-65	1.20	2.88	4.69	5.93	6.80	6.07	4.61	3.16	.71	38.83

NOTE: Pan valves inside border lines are actual readings; outside are estimated values

* Obtained via phone conversation 1/08/88 by Kevin Pierson

Source: COE, 1987

DAILY STREAM DISCHARGE DATA FOR RMA GAGING STATIONS OCTOBER 1985-NOVEMBER
1987

STATION: PEOPLE INTERCEPT[illegible][illegible]

STATION: LYNN INTERCEPT

[illegible][illegible]

KIM TUCKER - 601.1715

[illegible][illegible]

REF ID: A611615

MONTHS ENDING		1947		1948		1949		1950		1951		1952		1953		1954		1955		1956		1957		1958		1959		1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970		1971		1972		1973		1974		1975		1976		1977		1978		1979		1980		1981		1982		1983		1984		1985		1986		1987		1988		1989		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		2033		2034		2035		2036		2037		2038		2039		2040		2041		2042		2043		2044		2045		2046		2047		2048		2049		2050		2051		2052		2053		2054		2055		2056		2057		2058		2059		2060		2061		2062		2063		2064		2065		2066		2067		2068		2069		2070		2071		2072		2073		2074		2075		2076		2077		2078		2079		2080		2081		2082		2083		2084		2085		2086		2087		2088		2089		2090		2091		2092		2093		2094		2095		2096		2097		2098		2099		2100		2101		2102		2103		2104		2105		2106		2107		2108		2109		2110		2111		2112		2113		2114		2115		2116		2117		2118		2119		2120		2121		2122		2123		2124		2125		2126		2127		2128		2129		2130		2131		2132		2133		2134		2135		2136		2137		2138		2139		2140		2141		2142		2143		2144		2145		2146		2147		2148		2149		2150		2151		2152		2153		2154		2155		2156		2157		2158		2159		2160		2161		2162		2163		2164		2165		2166		2167		2168		2169		2170		2171		2172		2173		2174		2175		2176		2177		2178		2179		2180		2181		2182		2183		2184		2185		2186		2187		2188		2189		2190		2191		2192		2193		2194		2195		2196		2197		2198		2199		2200		2201		2202		2203		2204		2205		2206		2207		2208		2209		2210		2211		2212		2213		2214		2215		2216		2217		2218		2219		2220		2221		2222		2223		2224		2225		2226		2227		2228		2229		2230		2231		2232		2233		2234		2235		2236		2237		2238		2239		2240		2241		2242		2243		2244		2245		2246		2247		2248		2249		2250		2251		2252		2253		2254		2255		2256		2257		2258		2259	
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[illegible]

NOTED LINE = POLYMER

[illegible]

10027 1617511 = 9611725

[illegible]

THEY SAY: THE FBI

[illegible][illegible]

DATE: MAY 1964

	DATE	TIME	WAVELENGTH	MAY 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	TOTAL	(CPS)	(CPS)/(AC/FT)
DATE																																					
TIME																																					
WAVELENGTH																																					

[illegible]

STATION: SOUTH PLAINS AIRPORT

[illegible]

STATISTICAL ACTIVITIES

[illegible]

STATION: WEST CL. GIZ POST

(U/71)(S2) (S2)
 7101 8:1 AM
 110000 0000-0000

[illegible]

Appendix

WATER QUALITY DATA FOR RMA SURFACE WATER SAMPLING SITES 1ST QUARTER FY1986-
4TH QUARTER FY1987

MSD

PARAMETER:
BITS:

FILE GRP.	SAMPLE ID	DATE	TIME	IN	REACT	DOC	PCP	WIL	PCPD	P.P.-MOT	ALPHAS	DIETANIS	EDNIN	ISOPHIL	CHLORALDE	DIF
74-58	6	01-001	01/02/86	08:58		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.050	-0.060	-10.9
74-58	7	01-001	07/02/86	11:38		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.062	-10.5
74-58	1	01-001	09/03/86	09:51		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	1	01-001	05/19/87	14:00	NA	-0.358	-0.31	-12.9	-0.083	-0.083	-0.065	-0.118	-0.055	-0.068	-0.152	-10.5
74-58	1	01-001	10/20/87	08:19		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	1	01-002	07/02/86	11:12		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	1	01-002	09/03/86	08:47		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	2	01-002	05/23/87	18:21		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	3	01-003	08/12/86	14:32		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	3	01-004	12/26/87	13:54		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
08Q18	72	01C08	12/14/85	09:15		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
08S01	1	01C08	04/07/86	09:30		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
08S02	1	01C08	06/12/86	13:30		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
08S03	1	01C08	09/03/86	09:20		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-051	1	01C08	12/16/86	12:58		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-052	1	01C08	03/26/87	13:30		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-053	1	01C08	06/25/87	11:04		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-054	1	01C08	10/16/87	13:41		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
08S04	2	01PCC	04/07/86	09:30		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
08S05	2	01PCC	06/12/86	13:08		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
08S06	2	01PCC	09/03/86	08:58		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-051	2	01PCC	12/16/86	12:28		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-052	2	01PCC	02/25/87	12:30		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-053	2	01PCC	06/16/87	18:30		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-054	2	01PCC	10/16/87	09:45		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	2	02-001	12/12/85	13:38		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	3	02-001	07/02/86	12:08		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	3	02-001	03/03/86	13:11		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	3	02-001	05/20/87	11:17		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	3	02-001	10/29/87	11:52		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	5	02-003	06/30/87	13:04		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	41	02-004	07/02/86	08:50		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	38	02-004	03/03/86	13:31		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	35	02-004	05/23/87	07:42		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	37	02-005	03/03/86	12:47		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	38	02-005	05/27/87	14:11		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	37	02-005	10/29/87	13:15		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	4	02-005	06/30/87	13:57		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	39	02-007	10/26/87	13:21		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	48	02-008	10/26/87	12:51		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	6	03-002	06/30/87	10:05		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	35	05-001	12/20/85	09:35		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	10	05-001	07/01/86	12:15		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	32	05-001	05/15/87	13:25		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-58	42	05-001	10/25/87	08:51		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
08S06	6	06C08	09/04/86	11:54		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-053	6	06C08	06/16/87	13:17		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5
74-054	6	06C08	10/12/87	13:28		-0.130	-0.31	-12.9	-0.078	-0.078	-0.058	-0.078	-0.060	-0.052	-0.060	-10.5

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MS

PARAMETER:	REP	HTZ	WDS	CPUS2	CPUS3	CPUS 1,4-3ITE	1,4-OUT	16S18	REDUCE	REDUCE	P-TUL	MAP-TUL	CL
FILE:	MS/L	MS/L	MS/L	MS/L	MS/L	MS/L	MS/L	MS/L	MS/L	MS/L	MS/L	MS/L	MS/L
74-58 8	01-001 01/02/06 00:50	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 7	01-001 07/02/06 11:30	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 1	01-001 09/03/06 09:51	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 1	01-001 05/19/07 14:00	015.2	01.14	02.24	01.00	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 1	01-001 10/20/07 00:10	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 1	01-002 01/02/06 11:12	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 1	01-002 07/02/06 00:50	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 2	01-002 09/03/06 00:47	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 2	01-002 05/19/07 14:21	015.2	01.16	02.24	01.00	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 34	01-003 00/12/06 14:32	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 34	01-004 10/20/07 13:50	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
00018 72	01-006 12/10/05 00:15	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
00056 1	01-008 01/07/06 00:30	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
00052 1	01-008 06/12/06 13:30	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
00053 1	01-008 05/04/06 00:20	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-051 1	01-008 12/10/05 12:50	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-052 1	01-008 01/20/07 13:30	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-053 1	01-008 06/16/07 11:04	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-054 1	01-008 10/16/07 10:41	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
00058 2	01-008 01/07/06 00:30	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
00052 2	01-008 06/12/06 13:30	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
00053 2	01-008 05/04/06 00:50	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-051 2	01-008 12/10/05 12:50	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-052 2	01-008 01/20/07 13:30	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-053 2	01-008 06/16/07 11:04	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-054 2	01-008 10/16/07 00:45	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 2	02-001 12/12/05 13:30	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 3	02-001 05/03/06 13:11	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 3	02-001 05/20/07 11:17	015.2	01.14	02.24	01.00	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 4	02-001 10/20/07 13:52	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 5	02-003 06/16/07 13:00	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 41	02-004 01/02/06 10:20	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 2	02-004 07/02/06 00:50	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 36	02-004 09/03/06 13:31	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 36	02-004 05/20/07 07:42	015.2	01.14	02.24	01.00	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 37	02-005 05/03/06 12:47	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 38	02-005 05/20/07 14:11	015.2	01.14	02.24	01.00	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 37	02-005 10/20/07 13:15	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 4	02-005 06/16/07 13:57	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 39	02-006 10/20/07 13:21	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 40	02-008 10/20/07 12:51	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 6	03-002 06/16/07 10:05	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 35	05-001 12/20/05 00:35	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 10	05-001 07/01/06 12:15	015.2	01.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 35	05-001 05/15/07 13:25	015.2	01.14	02.24	01.00	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
74-58 42	05-001 10/20/07 00:51	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200
00053 6	06-003 05/16/07 13:17	015.2	02.00	04.70	04.20	01.30	01.10	02.00	01.21	01.34	01.00	01.35	01200

MSD

PARAMETER: NO1 37 0508 FIELD IN
 COMMENTS: 05/15 8 00065/CH STD WETS

FILE REF.	SAMPLE ID	DATE	TIME	NO1	37	0508	FIELD IN
74-58	7	07-081	12/70/05	10-10			
74-58	8	07-081	09/62/06	13-33			
74-58	6	07-081	05/79/07	04-44	527	756	0.10
74-58	8	07-081	10/72/07	12-48	3238		
74-58	8	07-082	12/70/05	10-45			
74-58	9	07-082	07/81/06	12-55		767	0.23
74-58	9	07-082	09/82/06	14-00		827	0.40
74-58	9	07-082	05/79/07	04-17	1550		
74-58	9	07-082	10/72/07	13-15	6720		
74-58	10	07-084	07/81/06	14-00		170	1.96
08-10	44	07-088	11/71/05	01-30			
08-51	5	07-088	04/82/06	16-45	331	4340	0.42
08-51	5	07-088	06/72/06	15-30	406	523	0.14
08-51	5	07-088	09/84/06	13-11	19.9	614	0.51
74-051	5	07-088	12/16/06	14-01	2640	2720	0.01
74-052	5	07-088	03/77/07	03-31	556	931	0.54
74-053	5	07-088	06/16/07	04-00	250		
08-10	43	07-088	11/71/05	11-00			
08-51	4	07-088	04/82/06	16-30	2010	947	0.24
08-51	4	07-088	06/12/06	15-10	1560	594	7.59
08-51	4	07-088	05/84/06	13-41	1420	549	7.94
74-051	4	07-088	12/16/06	14-11	2020	845	7.40
74-052	4	07-088	03/77/07	10-00	1010	759	0.34
74-053	4	07-088	06/16/07	14-21	701		
74-054	4	07-088	10/12/07	12-30	3090		
74-58	9	08-101	12/70/05	03-05			
74-58	11	08-102	07/81/06	12-35		355	9.21
74-58	11	08-102	09/83/06	14-04		440	0.14
74-58	11	08-102	06/70/07	10-50	761		
08-10	50	08-039	11/72/05	09-00			
08-10	66	08-039	12/70/05	15-15		030	0.03
08-51	11	08-039	04/82/06	10-45	192	916	8.40
08-51	11	08-039	06/72/06	09-00	200	950	7.03
08-51	11	08-039	09/84/06	11-00	93.4	899	8.33
74-051	11	08-039	12/16/06	10-50	544	810	0.07
74-052	11	08-039	03/76/07	11-00	247	753	9.02
74-053	11	08-039	06/16/07	09-33	556		
74-054	11	08-039	10/16/07	12-37	551		
74-58	11	11-081	12/70/05	12-05			
74-58	12	11-081	07/81/06	15-00		190	1.74
74-58	12	11-081	09/83/06	10-41		151	7.40
74-58	12	11-081	05/19/07	04-11	319		
74-58	12	11-081	10/72/07	09-47	27.2	192	10.3
74-58	13	11-082	07/81/06	14-44		127	10.1
74-58	13	11-082	09/83/06	11-11			
74-58	13	11-082	05/19/07	04-45	31.5		
74-58	13	11-082	10/72/07	11-11	60.0		
74-58	14	11-084	05/19/07	09-11			
74-58	14	11-084	07/81/06	14-30		170	10.4
74-58	35	11-084	09/83/06	11-27		141	9.39

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

PL 107-15/19/18 P123 14

ES2

[illegible]

MSX

PARTICLE:	NO3	SP CONC	FIELD IN
SIZE:	MG/L AS A	NUMS/CF	STD UNITS
2.5 CF	8 SAMPLE ID	DATE TIME	
744504 43	11-004	10/29/07 10:31	10.1
744504 14	12-001	12/28/05 11:10	
74502 15	12-001	07/01/06 13:00	176 10.4
74503 15	12-001	09/02/06 14:20	142 10.2
744502 15	12-001	05/19/07 10:04	30.3
74502 16	12-002	07/01/06 13:22	153 9.00
74503 16	12-002	09/02/06 14:50	133 9.90
744504 16	12-002	10/23/07 13:40	410.0
744504 17	12-004	12/28/05 11:55	
74503 18	12-004	09/03/06 10:17	
744503 18	12-004	05/19/07 10:41	256 8.03
74502 19	12-005	07/02/06 11:05	506 8.54
744503 19	12-005	05/19/07 13:17	3150
744504 19	12-005	10/30/07 07:51	4000
07010 42	12003	11/19/05 14:15	
07502 3	12003	06/16/06 12:45	1230
07503 3	12003	09/05/06 12:51	3650 7.84
744051 3	12003	12/17/06 11:15	1020 7.93
744052 3	12003	03/23/07 10:31	2320 8.00
744053 3	12003	06/17/07 11:34	1000
744054 3	12003	09/24/07 11:23	2330
07504 3	12003	04/07/06 12:45	1010 7.51
07010 43	13002	11/23/05 09:45	
07010 77	13002	12/29/05 11:00	
07504 10	13002	04/02/06 12:30	1240 7.74
744052 10	13002	03/26/07 14:14	1300 8.75
744053 10	13002	06/17/07 12:52	416 8.10
07010 40	14003	12/14/05 10:00	240
07504 9	14003	04/02/06 14:00	1700 8.06
07502 9	14003	06/16/06 14:40	1490 8.37
744051 9	14003	12/16/06 13:21	11.5 2010 8.45
744052 9	14003	03/26/07 15:20	1510 8.70
744053 9	14003	06/17/07 13:20	1520 8.64
744054 9	14003	10/12/07 16:40	35.9
07504 7	22004	04/15/06 10:45	40
07502 7	22004	06/16/06 10:00	450 7.13
07503 7	22004	09/05/06 11:00	330 8.50
744052 7	22004	04/08/07 11:11	770 9.06
744053 7	22004	05/17/07 09:25	1100 9.14
744054 7	22004	10/23/07 09:42	405
744504 15	24-001	12/12/05 11:44	837
74502 24	24-001	06/30/06 14:05	
74503 24	24-001	09/02/06 10:40	905 7.70
744504 24	24-001	05/15/07 09:30	505 7.00
744504 45	24-001	10/22/07 03:00	3600
74503 22	24-003	05/02/06 10:11	2910
74503 33	24-007	05/15/07 00:40	
744503 34	24-008	05/15/07 10:25	230
744504 49	24-008	10/22/07 09:55	21.0 29.4

MSI

PARAMETER:

UNIT:

PLD. CTR.	SAMPLE ID	DATE	TIME
74-59	23	30-002	12/12/83 12-00
74-59	27	30-002	06/10/86 14-35
74-59	35	30-002	09/12/86 11-13
74-59	27	30-002	05/23/87 12-35
74-59	59	30-002	10/22/87 10-20
74-59	27	31-001	12/12/85 12-37
74-59	28	31-001	06/10/86 15-00
74-59	28	31-001	05/23/87 13-11
74-59	28	31-002	07/11/86 11-50
74-59	29	31-002	09/02/86 11-51
74-59	29	31-002	05/27/87 12-57
74-59	29	31-002	10/22/87 11-30
06Q10	47	33-003	12/12/83 10-00
0750	8	33-003	04/15/86 04-30
0752	8	33-003	04/16/86 12-00
0753	8	33-005	09/15/86 11-40
74-051	8	33-003	12/17/86 09-40
74-052	8	33-003	04/10/87 12-11
74-053	8	33-003	06/17/87 10-40
74-054	8	33-003	10/23/87 10-55
74-59	39	35-003	05/23/87 10-36
74-59	31	36-001	12/09/85 10-12
74-59	32	36-001	07/02/86 09-20
74-59	32	36-001	04/12/86 12-16
74-59	32	36-001	05/27/87 09-21
74-59	32	36-001	10/30/87 09-31
74-59	33	36-003	04/12/86 13-20
74-59	31	36-003	05/27/87 10-11

PL	SM	CELA	CECL	CLOS	RENTALS	FEED	110CL	110CI	1117CI	1117CI	1127CI	1127CI	1129CI	1129CI	1163
KG/L	KG/L	KG/L	KG/L	KG/L	KG/L	KG/L	KG/L	KG/L	KG/L	KG/L	KG/L	KG/L	KG/L	KG/L	KG/L
<1200	314000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1200	295000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1220	153000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1220	515000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
1440	137200	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
1500	150000	<2.40	<1.40	1.75	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
1470	150000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1200	117000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1200	120000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1220	140000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1220	161000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1200	91200	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1200	86500	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1200	99300	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1200	176000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1220	112000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1220	41000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
<1220	130000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
1620	464000	<2.40	<1.40	<0.500	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
1400	110000	<2.40	561	1700	<5.00	130	<1.20	4.70	2.70	4.10	4.10	<0.610	8.01	8.01	82.9
1450	73000	<2.40	204	15.8	7.05	90.1	<1.20	5.32	3.25	5.33	5.33	<0.610	11.3	11.3	60.7
<1220	73000	<2.40	601	1210	<5.00	43.1	<1.20	1.70	<1.70	2.32	2.32	<0.610	3.41	3.41	10.7
1420	59500	<2.40	100	1010	<5.00	15.3	<1.20	5.70	2.00	3.90	3.90	<0.610	12.2	12.2	40.8
1340	200000	<2.40	1.40	<0.500	<5.00	66.5	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10
		<2.40	2.10	3.02	<5.00	<1.30	<1.20	<1.10	<1.70	<1.00	<1.00	<0.610	<1.20	<1.20	<1.10

MS

PARAMETER:	DATE:	FLD. CRP.	SAMPLE ID	DATE TIME	MS/LS	SP CONC	FIELD IN
							MMMS/100 STD UNITS
74-50 13	34-002	12/12/75	13-00			1468	0.29
74-50 27	34-002	06/24/76	14-25			1470	0.29
74-50 35	34-002	09/02/76	11-13				
74-50 37	34-002	05/29/77	12-25		479		
74-50 49	34-002	10/22/77	10-29		1770		
74-50 77	31-001	12/12/75	12-37			1160	7.64
74-50 28	31-001	06/20/76	15-06		5400		
74-50 20	31-001	05/26/77	13-11				
74-50 24	31-001	10/22/77	11-06			872	0.73
74-50 25	31-002	07/01/76	11-56			823	9.20
74-50 29	31-002	05/02/76	11-51				
74-50 23	31-002	05/27/77	12-57		749		
74-50 23	31-002	10/22/77	11-30		40.1		
09010 47	31000	12/12/75	10-08			700	0.11
0950 8	31000	04/15/76	00-30		790	619	0.09
0950 8	31000	06/16/76	12-08		1640	510	7.60
0953 0	31000	05/05/76	11-48		2540	650	0.06
74-051 8	31000	12/17/76	00-40		2750	858	0.00
74-052 8	31000	04/06/77	12-11		1700	740	7.62
74-053 8	31000	06/17/77	10-46		009		
74-054 8	31000	10/23/77	10-55		2470		
74-053 39	35-003	05/29/77	10-35		30.7		
74-50 31	36-001	12/09/75	10-12				
74-50 32	36-001	07/02/76	09-20			1350	7.95
74-50 32	36-001	04/12/76	13-10			1110	0.57
74-50 32	36-001	05/27/77	09-21		1700		
74-50 32	36-001	10/30/77	09-31		55.7		
74-50 33	36-003	08/12/76	13-29			0030	9.70
74-50 37	36-003	05/27/77	10-11		432		

811c

THIRD QUARTER FY1987 WATER TABLE MAP DATA

APPENDIX B.2: ALLUVIAL WATER LEVEL DATA

RMA Data Base

Wells used to construct the Third Quarter FY 1987 water table contour map.
(Page 1 of 13)

<u>Well ID</u>	<u>Water Level Elevation</u>
01001	5249.8
01002	-999.9
01004	5248.8
01009	0.0
01010	5255.8
01011	5257.3
01017	5252.6
01020	-999.9
01021	5247.4
01024	5235.0
01027	5246.6
01033	5249.5
01041	5247.6
01044	5247.5
01049	5245.4
01501	5260.6
01510	5254.0
01514	5260.6
01518	5261.3
01528	5256.7
02001	5223.0
02002	5236.3
02008	5195.7
02011	5207.0
02014	5195.7
02017	-999.9
02020	5220.3
02023	5224.9
02026	5222.6
02034	5227.6
02037	5221.3
02040	5213.8
02049	5193.9
02520	5194.1
03001	5135.4
03002	5139.6
03005	5175.1
03516	5125.4
03517	5125.9
03518	5126.2
03519	-999.9
03522	5132.7
03523	5141.6
04007	5122.7
04010	5127.6
04013	5123.2
04014	5123.2

RMA Data Base

Wells used to construct the Third Quarter FY 1987 water table contour map.
(Page 2 of 13)

Well_ID	Water Level Elevation
04015	5123.1
04016	5123.1
04019	5124.7
04020	5124.7
04021	5122.6
04022	5122.6
04023	5122.6
04024	5121.8
04025	5122.0
04026	5127.2
04027	5126.9
04028	5127.0
04029	5126.9
04038	5119.7
04039	5120.2
04042	5136.6
04043	5136.0
04044	5132.0
04045	5127.8
04046	5127.93
04047	5127.93
04524	5139.0
04525	5139.3
06002	5249.5
06003	5234.5
07001	5286.3
07003	5276.6
08002	5302.7
08003	5283.2
09001	-999.9
09002	5144.7
09005	5152.7
09006	5152.1
09007	5153.4
09008	5171.9
09010	5141.0
09011	5148.7
11002	5242.9
11005	5225.7
11006	5220.1
11007	5228.5
12001	5274.9
12002	5254.7
12005	5247.3
12007	5245.5
12008	5246.8
12009	5247.6

RMA_Data_Base

Wells used to construct the Third Quarter FY 1987 water table contour map.
(Page 3 of 13)

<u>Well_ID</u>	<u>Water Level Elevation</u>
19001	5170.1
19004	5158.7
19008	-999.9
19009	-999.9
19010	-999.9
19014	-999.9
22002	5095.7
22003	5093.7
22004	5106.8
22005	5087.5
22006	5109.1
22007	5107.9
22008	5092.7
22010	5093.1
22011	5111.7
22012	5143.7
22014	-999.9
22015	5087.4
22016	5087.3
22017	5087.4
22018	5087.8
22019	5092.2
22020	5093.2
22021	5093.3
22022	5093.4
22025	-999.9
22029	-999.9
22033	5093.5
22034	5093.3
22036	5093.4
22040	5092.3
22043	5093.1
22045	5092.7
22049	5110.3
22050	5106.9
22051	5086.4
22052	5089.9
22053	5091.2
22054	5112.3
22056	5093.2
22059	5087.2
22060	5106.2
23002	5142.9
23003	5142.9
23004	5141.5
23006	5143.0
23007	5142.9

RMA Data Base

Wells used to construct the Third Quarter FY 1987 water table contour map.
(Page 4 of 13)

Well_ID	Water Level Elevation
23008	5143.7
23009	5141.4
23010	5140.1
23011	5140.8
23012	5141.4
23013	5142.7
23014	5142.7
23015	5142.9
23016	5142.9
23020	0.0
23025	5139.1
23026	5138.8
23029	5140.9
23030	5140.7
23033	5141.2
23034	5144.0
23035	-999.9
23036	5142.6
23037	0.0
23038	-999.9
23039	5118.9
23040	5130.2
23043	5131.0
23044	5131.0
23045	5128.5
23046	5126.7
23047	5126.8
23048	5127.2
23049	5143.7
23050	5141.6
23051	5141.8
23052	5141.9
23057	5142.8
23058	5141.7
23059	5146.9
23063	-999.9
23064	-999.9
23065	-999.9
23066	-999.9
23067	5142.6
23072	5141.6
23079	5143.0
23084	5141.2
23085	5139.9
23092	5129.1
23094	5142.7
23095	5142.7
23096	5142.3

RMA Data Base

Wells used to construct the Third Quarter FY 1987 water table contour map.
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Well ID	Water Level Elevation
23101	5142.1
23102	5142.0
23107	5143.4
23108	5142.9
23109	-999.9
23110	5127.9
23111	5130.5
23118	5138.5
23119	5139.4
23120	5138.6
23121	5138.6
23122	5139.1
23123	5139.4
23124	5134.1
23128	-999.9
23129	-999.9
23130	-999.9
23131	-999.9
23132	-999.9
23134	5141.8
23135	5145.6
23136	-999.9
23137	-999.9
23140	5142.7
23141	-888.8
23142	5142.6
23143	5142.6
23145	5140.0
23146	5140.2
23148	5141.1
23149	-999.9
23150	5140.6
23151	5140.7
23157	5139.1
23160	5140.8
23166	5134.0
23178	5136.6
23179	5142.6
23188	5142.5
23191	5142.8
23196	5122.6
23197	5125.4
23198	5127.5
23205	5139.1
23207	5140.0
23208	5140.5
23211	5140.4
24001	5141.6

RMA Data Base

Wells used to construct the Third Quarter FY 1987 water table contour map.
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Well_ID	Water Level Elevation
24002	5143.3
24003	5147.4
24004	5132.7
24006	-999.9
24007	5141.1
24008	5141.7
24009	5141.6
24010	5141.9
24011	-999.9
24013	5139.8
24014	5140.1
24015	5139.9
24016	5139.4
24017	5139.6
24018	5140.1
24019	5140.7
24020	5140.3
24021	5139.8
24022	5140.0
24023	5140.5
24024	5139.7
24025	5139.2
24026	0.0
24027	5142.3
24040	0.0
24043	5143.2
24045	5141.7
24046	5141.5
24048	5141.4
24049	5141.3
24050	5142.0
24051	5142.0
24052	5142.1
24053	5142.1
24054	0.0
24055	5141.6
24056	5138.5
24057	5139.4
24058	5139.8
24062	5139.6
24064	5151.8
24065	5154.6
24067	0.0
24081	5164.5
24085	5166.1
24088	5162.3
24092	5139.6
24093	5154.2

RMA Data Base

Wells used to construct the Third Quarter FY 1987 water table contour map.
(Page 7 of 13)

Well_ID	Water Level Elevation
24094	5157.2
24095	5157.4
24096	5151.5
24097	5149.4
24098	5147.8
24099	5144.3
24100	5143.3
24101	5140.5
24102	5141.6
24103	5141.4
24104	5142.9
24105	5143.8
24106	5145.5
24107	5150.2
24110	-999.9
24111	5158.8
24112	5162.0
24113	5141.2
24114	5140.4
24115	5140.4
24117	5140.5
24121	5143.7
24122	5156.9
24123	5157.0
24128	5140.0
24129	5140.2
24149	5137.8
24150	5136.2
24151	5139.5
24158	5151.4
24161	5132.0
24162	5133.4
24163	5134.8
24164	5135.6
24165	5133.7
24166	5131.8
24169	5133.1
24170	5138.3
24176	5135.3
24177	-999.9
24178	5139.1
24179	5138.6
24180	5138.2
24181	5137.8
24182	5137.6
24183	5136.7
24185	5138.3
24186	5137.9

RMA Data Base

Wells used to construct the Third Quarter FY 1987 water table contour map.
(Page 8 of 13)

Well ID	Water Level Elevation
24187	5137.9
24188	5138.5
25001	5193.7
25002	-999.9
25003	5152.8
25011	5181.2
25015	5160.3
25018	5166.6
25022	5213.2
25030	-999.9
25035	5230.3
25038	5192.6
26001	-999.9
26002	5150.4
26004	-999.9
26005	5158.6
26006	5160.7
26009	5128.7
26010	5163.2
26011	5146.3
26015	5145.5
26016	5146.3
26017	5146.8
26018	5146.1
26020	5149.4
26040	5147.7
26044	5144.4
26046	5145.5
26048	5150.4
26049	5151.5
26050	5157.7
26062	5163.9
26065	5163.5
26068	5160.0
26070	-999.9
26073	5177.2
26076	5151.8
26078	-999.9
26081	5148.7
26083	5151.0
26085	5180.2
26088	5143.9
26091	5155.7
26093	5162.5
26124	5155.0
26126	5147.4
26127	5163.8
26133	5146.6

RMA_Data_Base

Wells used to construct the Third Quarter FY 1987 water table contour map.
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Well_ID	Water Level Elevation
26143	5175.9
26145	-999.9
27002	5095.3
27003	5098.0
27004	5093.9
27005	5094.1
27006	5094.2
27007	5095.2
27008	5095.3
27009	5095.7
27010	5093.1
27011	5093.3
27012	-999.9
27013	-999.9
27015	-999.9
27016	5145.6
27017	5148.4
27018	5148.0
27019	-999.9
27024	5126.1
27025	5126.3
27026	5125.8
27028	-999.9
27030	5140.4
27031	5119.2
27032	-999.9
27034	-999.9
27037	5103.6
27040	5121.3
27041	5114.0
27042	5107.0
27043	5104.4
27044	5100.5
27045	5094.7
27050	-999.9
27051	5128.8
27053	5103.2
27056	-999.9
27059	-999.9
27062	5093.8
27063	5094.1
27064	5094.1
27066	5094.7
27068	5094.2
27070	5094.8
27071	5095.1
27072	5096.2
27073	5097.8

RMA Data Base

Wells used to construct the Third Quarter FY 1987 water table contour map.
(Page 10 of 13)

<u>Well ID</u>	<u>Water Level Elevation</u>
27074	5097.1
27075	5096.2
27076	5096.0
27077	5095.7
27078	-888.8
27079	5119.8
27080	5120.0
27082	5111.5
27083	5102.6
28002	5096.2
28003	5096.2
28004	5097.0
28005	5097.6
28006	5097.9
28007	5098.6
28008	5098.9
28009	5099.6
28011	5100.2
28012	5100.5
28013	5100.8
28014	5100.6
28015	5101.4
28018	5101.9
28020	5101.9
28021	5101.9
28022	5103.8
28023	5098.3
28024	5098.3
28027	5101.4
28503	5108.1
28513	5105.2
30002	5171.0
30003	-999.9
30009	5197.3
31003	5231.9
31005	5202.4
31009	5216.6
32001	5233.0
33001	5115.4
33002	5118.7
33014	5102.9
33017	5118.1
33018	5102.8
33019	5103.0
33020	5102.1
33021	5102.9
33022	5103.0
33023	5103.2

RMA_Data_Base

Wells used to construct the Third Quarter FY 1987 water table contour map.
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<u>Well_ID</u>	<u>Water Level Elevation</u>
33024	5103.0
33025	5102.0
33030	5116.7
33033	5110.0
33048	5099.2
33049	5100.1
33050	5101.2
33051	5102.0
33052	5102.2
33053	5102.0
33054	5102.0
33060	5107.8
33061	5107.9
33062	5106.5
33063	5106.9
33064	5111.7
33065	5111.8
33066	5111.4
33067	5111.2
33068	5111.3
33069	5111.4
33070	5103.2
33071	5102.7
33072	5101.6
33073	5101.7
33077	5106.6
33500	5109.8
33501	5118.0
33502	5113.1
33505	5104.0
33506	5103.5
33507	5102.7
33508	-999.9
33509	5103.9
33510	5107.5
33511	5107.8
33512	5107.9
33533	5102.5
33534	5103.1
33576	5115.2
33577	5107.1
33579	5103.9
33580	5103.0
33581	5104.6
33582	5104.0
33583	5108.3
34001	5167.0
34002	5122.0

RMA_Data_Base

Wells used to construct the Third Quarter FY 1987 water table contour map.
(Page 12 of 13)

Well_ID	Water Level Elevation
34005	5116.1
34008	5110.9
34515	5120.7
35006	-999.9
35007	5189.0
35018	5188.9
35023	5233.8
35025	5228.5
35026	5225.1
35031	-999.9
35034	-999.9
35037	5167.2
35040	5166.2
35047	5215.6
35048	5219.2
35052	5240.5
35053	5240.1
35058	5182.6
35061	5222.0
35065	5220.3
35069	5220.8
36001	5252.7
36013	5227.6
36017	5227.3
36050	5254.3
36054	5252.4
36060	5242.4
36063	5230.9
36065	5238.0
36067	5235.3
36073	5233.6
36074	5236.7
36075	5245.9
36076	5240.1
36077	5224.0
36081	5229.8
36082	5231.3
36084	5231.3
36085	5231.2
36087	5249.7
36089	5230.0
36091	-999.9
36093	5230.6
36103	-999.9
36109	5243.9
36112	5219.4
36137	5221.1
36141	5222.4

RMA_Data_Base

Wells used to construct the Third Quarter FY 1987 water table contour map.
(Page 13 of 13)

Well_ID	Water Level Elevation
36142	5223.0
36145	5228.5
36147	5217.9
37307	5127.4
37308	5123.1
37309	5119.5
37312	5133.2
37313	5106.2
37320	5101.5
37327	5115.9
37330	5093.0
37331	5093.0
37332	5087.2
37333	5087.5
37334	5091.9
37335	5089.5
37336	5073.4
37337	5068.3
37338	5129.7
37339	5121.3
37340	5102.8
37341	5070.5
37342	5099.8
37343	5106.3
37344	5089.7
37345	5078.0
37346	5080.5
37348	5057.6
37349	5045.4
37350	5041.1
37351	5055.2
37352	5042.6
37353	5036.3
37354	5033.3
37355	5039.9
37356	5019.1
37357	5017.4
37358	5094.7
37359	5085.5
37360	5081.7
37361	5063.0
37362	5129.7
37364	5002.9
37366	5296.9

CDM Data Base

CDM wells used to generate the Third Quarter FY 1987 Water Table Contour Map. (Page 1 of 3)

Well_ID	Water Level Elevation
005	5125
008	5124
020	5125
025	5150
028	5153
031	5135
033	5101
034	5110
038	5113
045	5141
046	5115
048	5126
051	5125
052	5103
053	5105
056	5140
060	5146
063	5168
068	5106
071	5132
073	5139
076	5139
5461 Magnolia	5173
5471 Magnolia	5172
6871 Monaco	5131
7060 Holly	5121
7080 Kearney	5125
7091 Leyden	5125
7382-82PL	5104
CSF-101	5132
CSF-107	5133
CSF-110	5143
FIT-IM-MW-1	5174
FIT-IM-MW-2	5156
FIT-IM-MW-3	5156
FIT-IM-MW-4	5153
FIT-IM-MW-4B	5153
FIT-IM-WP-1	5175
FIT-IM-WP-2	5155
FIT-MW-1	5220
FIT-MW-10	5192
FIT-MW-11	5190
FIT-MW-12	5183
FIT-MW-2	5217
FIT-MW-3	5208
FIT-MW-4	5202
FIT-MW-5	5191

CDM Data Base

CDM wells used to generate the Third Quarter FY 1987 Water Table Contour Map. (Page 2 of 3)

Well ID	Water Level Elevation
FIT-MW-6	5192
FIT-MW-7	5188
FIT-MW-8	5178
FIT-MW-9	5199
HRS-10	5099
HRS-11	5097
HRS-12	5095
HRS-46	5139.3
HRS-48	5144
HRS-51	5239.2
HRS-55	5133
HRS-59	5141
HRS-69	5169
HRS-70	5143
HRS-72	5124
HRS-80	5120
HRS-85	5106
HRS-86	5102
LI-GW-4	5111
LI-GW-5	5110.8
MA-MW-1	5113
MA-MW-2	5112
MA-MW-3	5110
MA-MW-4	5110
NMW-1	5156
NMW-10	5156
NMW-15	5149
NMW-16	5147
NMW-17	5147
NMW-18	5147
NMW-19	5155
NMW-2	5156
NMW-20	5156
NMW-21	5156
NMW-22	5156
NMW-23	5155
NMW-24	5156
NMW-3	5156
NMW-4	5156
NMW-5	5155
NMW-6	5154
NMW-7	5154
NMW-9	5152
TAPS-004	5147
TAPS-021	5147
TAPS-031	5152
TAPS-046	5178
TAPS-049	5171

CDM Data Base

CDM wells used to generate the Third Quarter FY 1987 Water Table Contour
Map. (Page 3 of 3)

Well_ID	Water Level Elevation
TAPS-061	5121
TAPS-073	5104
TAPS-082	5094
TAPS-104	5123
TAPS-126	5121
TAPS-128	5099
TAPS-170	5099

TIME AVERAGED WATER TABLE MAP DATA

RMA Data Base

Water level information used to construct the Time Averaged Water Table Map
1981-1987. (Page 1 of 12)

Well ID	Water Level Elevation
01001	5250.2
01002	5248.0
01003	5249.3
01004	5248.5
01008	5248.6
01010	5256.4
01011	5257.6
01017	5254.1
01020	5244.8
01021	5247.6
01024	5234.8
01027	5249.9
01033	5249.5
01038	5246.7
01041	5248.0
01044	5248.3
01049	5246.4
01501	5259.3
01513	5257.4
01514	5259.8
01518	5259.7
01527	5259.4
01528	5256.5
02001	5221.4
02002	5235.4
02008	5195.3
02011	5207.0
02014	5194.8
02017	5240.4
02020	5220.2
02023	5222.4
02026	5221.9
02034	5226.7
02037	5219.6
02040	5213.8
02049	5192.3
02520	5194.1
02546	5246.5
03001	5174.5
03002	5129.2
03005	5174.3
03516	5125.0
03517	5125.2
03518	5125.6
03519	5146.9
03521	5172.4
03522	5132.2
03523	5140.8
04007	5121.3

RMA_Data_Base

Water level information used to construct the Time Averaged Water Table Map
1981-1987. (Page 2 of 12)

<u>Well_ID</u>	<u>Water Level Elevation</u>
04010	5127.1
04013	5122.9
04017	5124.1
04019	5124.6
04021	5122.3
04024	5121.6
04026	5127.0
04038	5119.7
04042	5136.6
04044	5132.0
04524	5138.6
04525	5139.4
06001	5234.4
06002	5249.8
06003	5235.0
07001	5285.1
07003	5276.2
09001	5143.4
09002	5143.5
09005	5153.0
09006	5151.7
09007	5154.2
09008	5171.9
09010	5141.0
09011	5148.7
11002	5235.9
11005	5225.7
11006	5220.1
11007	5228.5
12001	5274.9
12002	5255.2
12005	5247.3
12007	5245.5
12008	5246.8
12009	5247.6
19001	5168.6
19004	5158.3
19008	5165.0
19009	5179.2
19010	5173.4
19014	5164.9
20001	5158.7
22001	5111.0
22003	5093.0
22004	5106.6
22007	5107.9
22008	5092.9

RMA Data Base

Water level information used to construct the Time Averaged Water Table Map
1981-1987. (Page 3 of 12)

<u>Well_ID</u>	<u>Water Level Elevation</u>
22009	5093.2
22010	5092.9
22011	5111.8
22012	5144.4
22014	5143.1
22015	5089.1
22016	5088.9
22017	5089.3
22018	5089.5
22019	5092.7
22025	5110.9
22029	5112.2
22034	5092.7
22035	5091.6
22036	5093.1
22044	5107.6
22045	5093.8
22049	5110.4
22050	5106.4
22051	5092.4
22052	5091.0
22053	5090.8
22054	5112.6
22059	5089.0
22060	5106.2
23002	5143.5
23003	5143.8
23004	5142.5
23006	5143.8
23007	5143.5
23008	5143.9
23009	5142.2
23010	5141.1
23011	5141.8
23012	5142.3
23013	5143.7
23014	5143.3
23015	5143.4
23016	5143.5
23033	5141.9
23036	5143.3
23037	5147.6
23038	5116.5
23039	5121.1
23040	5129.0
23050	5142.9
23051	5142.8
23052	5142.7

RMA_Data_Base

Water level information used to construct the Time Averaged Water Table Map
1981-1987. (Page 4 of 12)

Well_ID	Water Level Elevation
23057	5141.3
23058	5142.5
23059	5147.1
23063	5132.2
23064	5126.8
23065	5117.6
23066	5114.7
23067	5145.2
23072	5142.4
23073	5142.8
23079	5142.9
23082	5143.0
23084	5142.3
23085	5141.5
23094	5143.3
23095	5143.6
23096	5142.6
23101	5143.0
23102	5143.2
23107	5143.5
23108	5143.1
23109	5145.5
23110	5129.7
23111	5131.8
23115	5139.6
23124	5134.9
23128	5146.3
23129	5149.0
23130	5145.4
23131	5147.3
23132	5145.7
23135	5145.7
23136	5149.1
23137	5149.4
23140	5143.3
23141	5146.2
23142	5143.2
23143	5143.4
23147	5144.3
23148	5141.2
23149	5148.3
23150	5141.4
23151	5141.5
23160	5141.3
23166	5135.3
23179	5143.4
23188	5143.3
23191	5143.3

RMA_Data_Base

Water level information used to construct the Time Averaged Water Table Map
1981-1987. (Page 5 of 12)

Well ID	Water Level Elevation
23196	5123.5
23197	5126.0
23198	5128.8
23205	5139.4
23206	5139.7
23207	5140.7
23208	5141.2
23211	5141.0
24001	5142.2
24002	5143.9
24003	5147.1
24006	5132.3
24007	5141.7
24008	5142.2
24008	5142.9
24010	5142.9
24011	5145.2
24023	5141.4
24026	5133.8
24027	5143.2
24028	5147.1
24042	5141.6
24048	5142.1
24049	5142.2
24052	5142.2
24053	5143.0
24054	5142.5
24055	5142.6
24064	5151.8
24065	5254.1
24066	5129.3
24067	5115.4
24081	5165.0
24084	5166.5
24085	5165.9
24088	5161.6
24092	5141.7
24093	5154.2
24094	5156.7
24095	5157.3
24096	5151.0
24097	5159.7
24098	5148.1
24099	5144.8
24100	5144.0
24101	5141.1
24102	5141.7

RMA Data Base

Water level information used to construct the Time Averaged Water Table Map
1981-1987. (Page 6 of 12)

<u>Well_ID</u>	<u>Water Level Elevation</u>
24103	5141.9
24104	5142.2
24105	5142.4
24106	5144.4
24107	5148.9
24110	5146.4
24111	5159.2
24112	5161.4
24113	5142.2
24114	5141.2
24115	5141.8
24116	5141.8
24117	5140.4
24121	5144.1
24122	5157.0
24123	5157.1
24158	5150.2
24161	5132.1
24163	5133.6
24164	5133.7
24166	5129.4
24169	5133.5
24173	5131.8
24176	5132.1
24177	5137.1
24178	5139.1
24179	5138.8
24180	5138.6
24181	5138.4
24183	5135.9
24185	5138.7
24186	5137.6
24188	5137.9
25001	5193.9
25002	5251.0
25003	5152.9
25011	5181.4
25015	5161.5
25018	5166.8
25022	5214.1
25030	5188.0
25035	5230.4
25038	5191.7
26001	5144.9
26002	5150.7
26004	5159.9
26005	5159.3

RMA_Data_Base

RMA Data Base

Water level information used to construct the Time Averaged Water Table Map
1981-1987. (Page 7 of 12)

<u>Well_ID</u>	<u>Water Level Elevation</u>
26006	5159.0
26007	5153.2
26008	5146.5
26009	5145.5
26010	5163.6
26011	5146.6
26012	5173.0
26014	5146.5
26015	5146.3
26016	5146.6
26017	5147.0
26018	5146.6
26020	5149.9
26026	5159.1
26036	5149.1
26039	5146.8
26040	5147.8
26044	5145.4
26045	5146.2
26046	5145.6
26048	5150.6
26049	5151.6
26050	5158.3
26062	5164.8
26065	5164.0
26068	5160.2
26070	5165.0
26073	5177.5
26076	5152.3
26078	5150.0
26083	5151.2
26085	5180.7
26088	5142.9
26091	5159.1
26092	5149.7
26093	5164.9
26124	5155.4
26125	5146.9
26127	5164.6
26133	5147.0
26143	5175.9
26145	5140.9
27001	5093.2
27002	5094.8
27003	5098.1
27004	2093.7
27005	5094.2
27006	2094.2

RMA_Data_Base

Water level information used to construct the Time Averaged Water Table Map
1981-1987. (Page 8 of 12)

Well_ID	Water Level Elevation
27007	5095.1
27008	5095.8
27009	5095.5
27010	5093.2
27011	5093.2
27012	5147.6
27013	5144.8
27014	5147.9
27015	5147.9
27016	5145.8
27017	5148.1
27018	5148.3
27019	5148.6
27024	5125.8
27025	5126.2
27026	5125.0
27027	5124.6
27028	dry
27029	5124.9
27030	5122.1
27031	5108.7
27032	dry
27034	dry
27035	5111.7
27036	5110.1
27037	5103.4
27040	5120.6
27041	5113.5
27042	5106.6
27043	5104.2
27044	5100.3
27050	dry
27051	5128.0
27053	5101.9
27056	5098.7
27059	5127.6
27062	5094.4
27063	5094.2
27072	5096.3
27073	5098.4
27074	5097.1
27075	5096.4
27076	5096.0
27077	5096.0
27078	5095.4
27079	5119.8
27080	5120.1
27081	5119.6

RMA Data Base

Water level information used to construct the Time Averaged Water Table Map
1981-1987. (Page 9 of 12)

Well_ID	Water Level Elevation
27082	5111.7
27083	5103.0
28002	5096.1
28003	5096.1
28004	5096.9
28005	5097.6
28006	5098.0
28007	5098.4
28008	5098.4
28009	5099.0
28010	5099.3
28011	5100.1
28012	5100.4
28013	5100.6
28014	5100.5
28015	5101.1
28016	5101.3
28017	5100.4
28018	5102.1
28019	5102.3
28020	5102.2
28021	5101.9
28022	5103.8
28023	5098.2
28503	5106.1
28513	5104.4
30001	5184.3
30002	5169.6
30003	5207.3
30009	5196.3
31001	5216.2
31003	5232.8
31005	5201.6
31009	5216.9
32001	5232.2
33001	5115.0
33002	5118.2
33011	5103.7
33012	5101.2
33013	5098.1
33014	5103.0
33017	5117.4
33030	5115.6
33033	5110.3
33060	5107.7
33061	5107.1
33062	5106.8

RMA_Data_Base

Water level information used to construct the Time Averaged Water Table Map
1981-1987. (Page 10 of 12)

Well_ID	Water Level Elevation
33063	5106.6
33070	5102.9
33071	5102.2
33072	5101.3
33073	5101.1
33077	5106.6
33505	5104.9
33506	5103.2
33507	5101.0
33508	5104.3
33509	5103.6
33510	5107.1
33511	5107.0
33512	5111.2
33580	5102.8
33581	5104.1
33582	5204.8
34001	5167.1
34002	5121.9
34005	5115.5
34008	5110.3
34515	5120.5
35001	5223.8
35002	5221.8
35006	5191.4
35007	5189.1
35018	5189.5
35020	5222.4
35022	5230.6
35023	5233.4
35025	5228.8
35029	5223.6
35031	5175.6
35034	5188.9
35037	5167.7
35040	5166.7
35042	5170.5
35043	5184.0
35045	5218.6
35046	5200.9
35047	5216.4
35048	5218.5
35052	5240.5
35053	5240.0
35058	5181.9

RMA Data Base

Water level information used to construct the Time Averaged Water Table Map
1981-1987. (Page 11 of 12)

Well_ID	Water Level Elevation
35065	5220.8
35069	5221.2
35075	5220.4
35076	5219.6
36001	5252.3
36013	5227.8
36014	5227.5
36016	5226.3
36017	5227.0
36021	5225.4
36022	5224.7
36041	5231.8
36048	5241.8
36049	5248.3
36050	5251.6
36053	5252.6
36054	5252.2
36058	5250.2
36060	5241.0
36063	5232.0
36065	5237.6
36067	5235.4
36070	5228.5
36073	5233.1
56074	5234.2
36075	5246.4
36076	5239.4
36077	5224.3
36080	5230.6
36081	5229.8
36082	5230.0
36084	5231.7
36085	5230.3
36087	5250.3
36088	5229.4
36089	5230.4
36091	5231.9
36093	5230.5
36101	5230.4
36103	5231.7
36109	5247.3
36112	5220.3
36135	5227.5
36137	5221.5
36141	5223.0
36142	5223.4
36145	5228.6
37304	5120.8

RMA Data Base

Water level information used to construct the Time Averaged Water Table Map
1981-1987. (Page 12 of 12)

<u>Well_ID</u>	<u>Water Level Elevation</u>
37308	5123.4
37309	5119.8
37313	5105.1
37321	5100.9
37323	5118.4
37327	5115.5
37330	5093.7
37331	5093.8
37333	5089.6
37334	5092.6
37335	5090.7
37336	5075.4
37337	5055.5
37339	5121.7
37340	5103.1
37341	5071.3
37342	5100.5
37343	5105.3
37344	5090.6
37345	5076.0
37346	5080.2
37347	5064.6
37348	5058.5
37349	5047.2
37350	5042.6
37351	5055.6
37352	5043.8
37353	5036.5
37354	5033.7
37355	5039.7
37356	5017.9
37357	5017.0
37358	5094.7
37360	5081.4
37361	5062.8
37363	5036.8
37364	5001.7
37366	5296.7
37369	5120.2
37370	5110.0
37373	5109.3
37374	5108.9
37377	5112.4
37378	5112.2
37385	5085.1

09/28/88

Chen & Associates Data Base

Wells used to construct the Time Averaged Water Table Map (1981-1987).
Water level information Chen & Associates' Stapleton data. (Page 1 of 1)

Well ID	Water Level Elevation
07006	5266.1
07012	5278.0
07013	5283.0
07014	5302.0
08007	5278.7
08008	5287.6
08010	5294.0
08013	5303.9
08015	5296.4
08017	5302.2
11009	5208.1
11011	5222.0
11012	5228.5
11013	5228.5
11014	5240.7
11015	5238.5
11016	5211.8
11017	5235.0
11018	5245.7
11019	5250.1
12010	5239.6
12012	5247.4
12014	5255.0
12015	5268.6
12016	5258.9
12017	5247.4
12020	5257.2
12022	5270.5
12023	5275.7

MKE_Data_Base

Additional wells used for the Time Average Water Table Map 1981-1987. MKE
water level information. (Page 1 of 1)

Well_ID	Elevation
01004	5065
01019	5040
01023	5032
02002	5040
02010	5039
03003	5015
03007	5013
04001	5014
04001	5298
04601	5283
09001	5287
09006	5045
09008	5032
09026	5047
09603	5294
10002	5228
11005	5070
11015	5073
11016	5077
11017	5078
17001	5132
35003	5014
35010	5019
36002	5045
36012	5020
36014	5030

09/28/88

CDM Data Base

Additional water level information used to construct Time Average Water
Table Map 1981-1987 (CDM data). (Page 1 of 2)

Well_ID	Water Level Elevation
FIT-MW-12	5183
FIT-MW-2	5217
FIT-MW-3	5208
FIT-MW-4	5202
FIT-MW-5	5191
FIT-MW-6	5192
FIT-MW-7	5188
FIT-MW-8	5178
FIT-MW-9	5199
SAC-MW-2	5119
SAC-MW-3	5132
SAC-MW-4	5152
SAC-MW-5	5173
SAC-MW-6	5170
SAC-MW-8	5155
SAC-MW-9	5203
SC-15B	5158
SC-16B	5158
NMW-10	5156
NMW-15	5149
NMW-16	5147
NMW-17	5147
NMW-18	5147
NMW-19	5155
NMW-2	5156
NMW-20	5156
NMW-21	5156
NMW-22	5156
NMW-23	5155
NMW-24	5156
NMW-3	5156
NMW-4	5156
NMW-5	5155
NMW-6	5154
NMW-7	5154
NMW-9	5152
SAC-MW-1	5097
SAC-MW-11	5136
DC-GW-1	5217
DC-GW-3	5192
FIT-IM-MW-1	5174
FIT-IM-MW-2	5156
FIT-IM-MW-3	5153

CDM Data Base

Additional water level information used to construct Time Average Water
Table Map 1981-1987 (CDM data). (Page 2 of 2)

Well ID	Water Level Elevation
FIT-IM-MW-4	5153
FIT-IM-MW-4B	5153
FIT-IM-WP-1	5175
FIT-IM-WP-2	5155
FIT-IM-WP-3	5155
FIT-MW-1	5220
FIT-MW-10	5192
FIT-MW-11	5190

APPENDIX B.3: DENVER FM WATER LEVEL DATA

09/28/88

ESE Data Base

Water level information used to construct the Potentiometric Surface Map.
Denver Fm Zone A. (Page 1 of 2)

3rd Quarter FY 1987

<u>Well_ID</u>	<u>Water Level</u> <u>Elevation</u>
30004	5195.4
29002	5214.8
25008	5182.1
25033	5182.3
25036	Dry
25025	Dry
25023	5215.1
25004	5200.5
35024	5233.8
35055	5232.4
35073	5238.1
35015	5239.7
35071	5241.8
36117	5247.1*
36121	5195.4
36146	5227.5
36105	5216.2
36110	5243.7
36066	5230.9
36119	5239.0
31007	5199.5
31011	5222.4
32002	5224.0
06004	5233.9
06005	5234.0
01040	5239.7
01034	5241.3
01035	5241.6
01032	5241.9
01042	5241.0
01045	5245.6
01050	5244.9
01028	5244.5
01025	5234.2
01022	5246.2
02047	5243.7
02004	5244.5
02045	5245.5
02043	5240.3
02018	5228.2
02030	5244.0
02038	5220.9

ESE Data Base

Water level information used to construct the Potentiometric Surface Map.
Denver Fm Zone A- (Page 2 of 2)

	3rd Quarter FY 1987
	Water Level
Well ID	Elevation
02024	5229.5
02035	5227.5
02032	5238.1
11004	5226.4
12004	5244.5

* - Elevated water level

Wells 36116, 35054, 02044, 02041, and 02019 exhibited water levels between those of zone A and lu. Well 01031 exhibited water a level between that of the alluvium and the A zone. Well 02021 and 08005 exhibited water levels representative of the lu.

ESE Data Base

Water level information used to construct the Potentiometric Surface Map.
 Denver Fm Zone 1u (Page 1 of 1)

3rd Quarter FY 1987

<u>Well ID</u>	<u>Water Level Elevation</u>
25028*	5181.0
25024	5202.3
25039	5193.2
30006	5184.2
30005	5180.6
29003	5175.7
26097	5183.8
26054	5199.2
26056	5187.1
26063	5183.8
26054	5174.4
26096	5189.0
35012	5190.5
35016	5190.6
35009	5194.5
35050*	5202.0
35051	5201.8
35005	5178.6
35067	5205.6
35070	5212.5
35062*	5214.4
35059	5182.4
35056	5199.0
36147	5217.9
36083	5223.5
36104	5225.8
36061	5290.1
31008	5194.9
01029*	5222.3
01023	5229.0
02048	5204.4
02046	5149.8
02042	5200.1
02015	5185.2
02039	5206.0
02031	5203.3
02025	5209.2
02036	5214.2
02033	5214.5
02021*	5217.3
02028	5127.6
02012	5207.2
08005	5249.8

* Wells 35050, 02021, 01029, and 35062 are screened in the AL above the LA, which is fractured and connects these AL's with the 1u.

ESE Data Base

Water level information used to construct the Potentiometric Surface Map.
Denver Fm Zone 1. (Page 1 of 1)

3rd Quarter FY 1987

<u>Well ID</u>	<u>Water Level Elevation</u>
19017	5165.8
19007	5155.7
19003	5164.7
19001	5170.1
24108	5153.4
24089	5160.0
24087	5168.1
24086	5166.6
24083	5166.0
24082	5165.6
24125	5162.5
24080	5160.6
24124	5158.7
23016	5142.9
30007	5167.5
30010	5192.8
25009	5175.3
25037	5179.6
25012	5182.5
25007	5180.7
25040	5192.5
26123	5156.9
26019	5149.7
26022	5150.5
26023	5150.2
26026	5156.5
26071	5158.3
26066	5162.2
26053	5170.5
26128	5165.5
26052	5166.8
26140	5165.8
26144	5170.5
26075	5168.8
26086	5173.3
26057	5182.9
26058	5187.3
36079	5195.1
35032	5168.9
35038	5166.3
35036	5178.5
35017	5189.3
34012	5161.2

ESE_Data_Base

Water level information used to construct the Potentiometric Surface Map.
Denver Fm Zone 2. (Page 1 of 2)

3rd Quarter FY 1987

<u>Well_ID</u>	<u>Water Level</u> <u>Elevation</u>
19018	5163.0
19002	5169.7
19015	5166.9
24182	5137.6
24167	5134.1
24127	5139.9
24135	5139.7
24184	5139.5
23204	5132.6
23203	5130.1
23202	5129.9
23177	5135.7
23144	5138.8
23182	5113.6
23186	5129.0
23189	5142.0
23181	5142.3
30011	5187.4
25019	5164.2
25016	5155.9
25017	5153.6
25010	5170.6
25013	5178.6
26043	5145.5
26046	5138.0
26082	5146.8
26084	5149.4
26141	5154.8
26134	5152.4
26072	5152.7
26077	5150.9
26079	5149.0
26067	5153.2
26061	5145.8
26089	5143.6
26069	5153.5
26060	5153.7
26092	5151.1
26094	5152.3
27094	5152.3
27049	5141.8
32003	5186.6
36114	5192.6
35068	5193.0
35033	5162.5
35039	5145.0
35041	5145.8

ESE_Data_Base

Water level information used to construct the Potentiometric Surface Map.
Denver Fm Zone 2. (Page 2 of 2)

	3rd Quarter FY 1987
	Water Level
<u>Well_ID</u>	<u>Elevation</u>
34006	5116.8
01048	5199.5
02013	5183.5
02009	5177.8
03006	5166.9
09003	5140.9
37387	5119.6
37323	5118.8

ESE Data Base

Water level information used to construct the Potentiometric Surface Map.
Denver Fm Zone 3. (Page 1 of 1)

	3rd Quarter FY 1987
Well_ID	Water Level _Elevation_
37371	5110.0
37379	5107.3
19016	5147.1
37376	5129.8
24120	5141.9
24136	5139.8
24168	5134.0
24174	5134.9
23161	5127.8
23209	5136.7
23190	5142.0
23192	5141.6
23200	5130.4
22027	5108.6
37382	5086.6
30008	5156.8
26138	5148.4
25080	5145.0
26142	5154.5
26090	5144.4
26147	5134.8
28030	5102.0
34009	5111.1
34003	5121.7
03003	5130.9
27057	5098.4

ESE_Data_Base

Water level information used to construct the Potentiometric Surface Map.
Denver Fm Zone 4. (Page 1 of 1)

	3rd Quarter FY 1987
	Water Level
Well_ID	Elevation
37372	5109.7
37388	5102.2
37317	5106.3
37380	5106.8
37365	5105.5
24159	5147.9
24137	5138.3
24175	5136.0
23169	5133.3
23183	5112.2
23187	5120.7
23201	5129.7
22002	5095.7
22028	5102.3
22030	5099.2
22023	5091.5
26135	5152.8
27054	5071.5
28028	5099.8
34004	5121.0
34007	5117.0
34010	5111.2
33015	5108.3
33016	5113.0
33034	5110.0

APPENDIX B.4: ALLUVIAL AND DENVER FM AQUIFER TEST DATA

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ALLUVIAL PUMPING TESTS

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DENVER FM SLUG TESTS

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DENVER FM PUMPING TESTS

APPENDIX C

TASK 44

APPENDIX C.1: SUMMARY OF TASK 44 ACTIVITIES

APPENDIX C**TASK 44**

Task 44 was originally intended as a long term monitoring program to sample semiannually and quarterly groups of wells, to monitor water levels, to evaluate data and assess contaminant distributions, to make recommendations to the water monitoring effort of this and other tasks. Many of these original Task objectives were carried out under Task 44 including well network selection, the definition of the analytical schedule, definition of the general scope of work, new well installations, the sampling of the monitoring network, and the monitoring of water levels.

The following section presents a brief summary of original Task 44 objectives and scope-of-work. It also presents the Task 44 sampling network, the analytical suite, and geotechnical program. Detailed information concerning the proposed Task 44 Program is available in the Task 44 Final Technical Plan (ESE, 1988). Data evaluation and interpretive efforts that were originally proposed under Task 44 were ultimately carried out under the Water Remedial Investigation effort and are presented in the main body of the present report.

TASK_44_OBJECTIVES

The necessity of establishing a comprehensive data base for surface and ground water, was recognized as part of the environmental investigation at RMA has been recognized. Task 4 addressed part of this need by providing baseline data to assess contaminant distributions at RMA.

Under Task 4, three rounds of water samples were collected over a 1-year period within RMA to achieve the following objectives:

- o Satisfy compliance-oriented regulatory requirements under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the substantive requirements of all applicable or relevant and appropriate Federal and State requirements that have application through CERCLA;

- o Confirm the existence and chemical nature of contamination and monitor any changes in the lateral and vertical extent of contamination; and
- o Develop a core data base for use in upcoming litigation and Remedial Investigation/Feasibility Study analyses for RMA.

Task 44 was developed using the core Task 4 objectives, however, the scope of the task was broadened to address other salient items that were beyond the scope of Task 4.

Task 44 (under Contract No. DAAK-11-84-D-0016) was awarded on March 19, 1987. The objectives of Task 44 as detailed in the Delivery Order are to:

- o Assess the distribution and concentration levels of ground water and surface water contaminants and monitor changes in water quality with respect to these contaminants for both the onpost and offpost areas;
- o Monitor and evaluate changes in water levels;
- o Evaluate data and recommend program modifications to this or other water monitoring tasks; and
- o Identify areas of significant public exposure and make appropriate information available to Tasks 35 and 39.

In order to satisfy the primary goals of the task, certain ancillary objectives were accomplished and incorporated in the WRIR:

- o Utilize available geologic data to further define the current understanding of the geologic conditions present at RMA;
- o Summarize the hydrogeologic conditions in the onpost and offpost areas by integrating existing hydrologic, geologic, and water quality data;
- o Identify the primary hydrogeologic pathways by which contaminants are being transported to the RMA boundary or the offpost area;
- o Evaluate the existing monitoring program for data deficiencies and assess the need for additional wells; and
- o Integrate all data from water related tasks and supply appropriate information to Task 23 efforts including data bases, contaminant distribution maps, and hydrogeologic assessments.

Task 44 established the hydrologic core data base for and provided to the Endangerment Assessment (EA) and Feasibility Study (FS) groups adequate interpretation and characterization of hydrologic, geologic, and geochemical data so that their specified goals can be achieved.

The overall Task 44 program was designed to be dynamic in nature and to be modified, as required, in response to ongoing data evaluation and/or changes in the SOW or task objectives. Task 44 formed the base or trunk hydrologic program, while other efforts (Tasks 25, 36, 38, 39, etc.) represented tributary or branch efforts which satisfied specific individual task needs, as well as augmented the Task 44 program.

PROPOSED SCOPE OF WORK

The scope of the Task 44 water quality/quantity survey included a sampling program of ground-water and surface water that was capable of satisfying the various regulatory requirements. The monitoring program under Task 44 was initially proposed as a semiannual sampling event with quarterly sampling of 43 offpost wells and 12 onpost Basin F wells. However, the proposed semiannual sampling under Task 44 was executed as a one-time-only sampling event during the third quarter FY87. Quarterly sampling of the 55 wells was conducted under Task 44, and monitoring these wells was transferred to the Comprehensive Monitoring Program, which was initiated during the first quarter FY88.

Additional proposed work included development of litigation-quality data for addition to the current data base, and evaluation of the extent and nature of contamination. In order to achieve these objectives, work in six distinct technical areas was initiated. These areas are as follows:

- o Review of historical data;
- o Develop a monitoring program to achieve the task objectives;
- o Execute the monitoring program utilizing litigation-quality sampling and analytical procedures;
- o Assess data after the first sampling event for possible adjustments in the sampling and/or analytical scheme;
- o Compile and interpret the accumulated data at the end of the sampling program (conducted under the WRI); and

- o Coordinate with and integrate data from other current ground water tasks such as Tasks 25, 26, 36, 38, and 39 (conducted under the WRI).

During review of the historical data, a large number of wells were evaluated with respect to construction detail, sampling history, and location. Criteria for evaluating these wells are described in the Final Technical Plan, Task 44 (ESE, 1988).

An assessment of numerous types of data was performed to help design the Task 44 monitoring network. Borehole logs and geologic cross sections were examined to establish a preliminary evaluation of subsurface geology. Water-level data from the Task 4 program were examined to establish directions of ground water flow within the alluvium and to aid in the correlation of permeable units within the Denver Formation. Water-quality information from Task 4 and, as appropriate, from the historical data base were examined to formulate an assessment of the distribution of contaminants within the RMA ground water system. A preliminary assessment of hydrogeologic conditions was used to design the proposed Task 44 well network. A detailed review of well selection methodology is discussed in the Final Technical Plan, Task 44 (ESE, 1988).

All ground water monitoring wells and surface water sampling sites were sampled using uniform sampling methods. Ground water and surface water samples were analyzed for a predetermined list of analytes including numerous organic and inorganic parameters (Table). Sample collection, measurement of field parameters, and analysis of samples were performed in accordance with USATHAMA Quality Assurance/Quality Control (QA/QC) procedures (USATHAMA, 1982, RIC#87048R03). These procedures included collection of field quality control samples and decontamination of all sampling equipment. Collection procedures are presented in the Final Technical Plan, Task 44 (ESE, 1988).

PROPOSED SELECTION OF THE MONITORING NETWORK

The monitoring network was designed using numerous criteria including the following:

- o Available information on well construction;
- o An evaluation of sampling history;
- o Chemical data;
- o Sampling frequency; and
- o Well location.

A detailed description of the network election process is presented in Section 3 of the Task 44 Final Technical Plan (ESE, 1988).

The proposed Task 44 monitoring network for RMA consisted of a total of 311 alluvial, Denver Formation, and offpost wells. Of the 311 wells, 43 are located in the offpost area and 268 wells have either been recently sampled or are proposed for sampling under other RMA tasks or programs as listed below.

- o 186 Task 4 wells (includes 6 wells previously included with Task 38);
 - o 43 Offpost wells;
 - o 25 Task 25 wells;
 - o 11 Task 38 wells; and
 - o 46 Historic and recent SCC wells.
- 311 Wells

Historic wells are those not sampled recently. Specific wells selected for the Task 44 network from other task networks are discussed in a following section.

Except for offpost well locations, all wells were selected utilizing the criteria and methodology described in the Final Technical Plan, Task 44 (ESE, 1988).

3.1.2.2 Offpost Water Quality Monitoring Network

The offpost monitoring network consisted of 43 wells from offpost Task 6 (Contract No. DAAK11-83-D-007) as listed in Table C-1. Well selection criteria were not evaluated in depth for offpost wells because these wells were taken directly from Revision III - 360° Monitoring Program. Of the 43 total offpost wells, 42 are completed in alluvium and one is considered a

Table C-1. Task 44 Offpost Well Network

37305*	37348
37307	37349
37308	37350
37309	37351
37312	37352
37313	37353
37320	37354
37332	37355
37333	37356
37335	37357
37338	37358
37338	37359
37340	37360
37341	37361
37342	37362
37343	37363
37344	37364
37345	37365**
37346	37366
37347	

Also included are the following four alluvial domestic wells:

Boller
XII
XXI
CIII

* Well abandoned.
** Denver Formation well.

Source: ESE, 1988.

Denver Formation well. Offpost and onpost wells were sampled and analyzed using identical procedures. Offpost wells were sampled on a quarterly basis in conjunction with Task 25 and to comply with requirements of the 1975 Cease and Desist Order. Additional monitoring of the Denver Formation offpost was performed under Tasks 25, 36, and 39. These tasks include installation of additional Denver Formation monitoring wells in selected locations.

The onpost monitoring network was subdivided into an alluvial network consisting of 128 wells and a Denver Formation network consisting of 140 wells. These networks are discussed separately below. Onpost sampling was conducted Third Quarter FY87 except for the following 12 wells in the vicinity of Basin F which will be sampled quarterly:

23049	23142	26020	26085
23095	26015	26041	26127
23108	26017	26073	27016

Quarterly sampling was conducted historically for these Basin F wells, and the same sampling schedule was retained in Task 44 efforts to provide consistent sampling frequency.

Alluvial Well Network

The alluvial monitoring well network was designed to monitor contaminant distributions in saturated RMA alluvium. One hundred and twenty-eight onpost alluvial wells were selected for the Task 44 program (Table C-2). Many of these wells were recently sampled within the last year under current or previously existing RMA tasks:

Task 4 wells	84
Current Task 25 wells	15
Current Task 38 wells	11
Historical wells	15
Recent Shell Wells	3
Total Task 44 Wells	128

The alluvial monitoring well network is shown in Figure 3.1-3 and summarized by section in Table C-2.

Table C-2. Proposed Onpost Task 44 Monitoring Network,
Alluvial Aquifer Wells (Page 1 of 2)

Section	Total Wells	Well Numbers
1	6	017, 020, 021, 024, 027, 041
2	6	008, 011, 014, 020, 034, 037
3	5	002, 005, 008, 518, 523
4	12	007, 010, 014, 021, 024, 027, 030, 038, 041, 042, 044, 045
6	2	002, 003
7	1	001
8	1	003
9	7	002, 005, 006, 008, 010, 011, 013
11	1	002
12	1	002
19	1	001
22	5	006, 021, 049, 051, 059
23	11	004, 029, 039, 049, 058, 095, 108, 142, 179, 188, 191
24	9	092, 101, 106, 107, 111, 112, 113, 158, 185
25	5	011, 015, 018, 022, 038
26	13	006, 011, 015, 017, 020, 041, 073, 076, 083, 085, 088, 127, 133
27	8	003, 005, 016, 040, 051, 053, 062, 074
28	3	022, 023, 027

Table C-2. Proposed Onpost Task 44 Monitoring Network,
Alluvial Aquifer Wells (Continued, Page 2 of 2)

Section	Total Wells	Well Numbers
<hr/>		
30	1	009
31	1	005
33	8	001, 002, 030, 033, 039, 063, 075, 077
34	7	002, 005, 008, 504, 507, 508, 515
35	7	023, 034, 037, 052, 058, 061, 065
36	7	001, 065, 075, 076, 084, 112, 139

Note: Task 4 Wells 84
 Current Task 25 Wells 15
 Task 38 Wells 11
 Historic Wells 15
 Recent Shell Wells 3
 Total Task 44 Wells 128

Source: ESE, 1987

Alluvial wells associated directly with five major potential contaminant sites are as follows:

Potential Contaminant Site	Alluvial Wells
South Plants	15
Basin A/A Neck Area	9
Basins B-E	8
Basin F	25
North Plants	5

A total of 27 alluvial wells in Sections 4, 9, and 33 (western tier) were included in the Task 44 program to provide long-term monitoring of the organohalogen and DBCP contamination associated with the Railroad Classification Yard and potential offpost sources.

Paleochannels may, under some conditions, influence directions of ground water flow and provide contaminant migration pathways that facilitate the spread of contamination. Consequently, an effort was made when selecting wells to choose wells that were situated within paleochannels or as close to paleochannels as possible to intersect potential contaminant migration paths. Approximately 42 wells were selected to investigate the importance of paleochannels at RMA as related to ground water flow contaminant migration. The paleochannels were inferred from the Army/ESE and Shell bedrock surface maps.

A set of five wells (06002, 07001, 08003, 11002, and 12002) was chosen to provide regional background monitoring of the alluvial aquifer. These wells also provide a general indication of alluvial water quality flowing onto RMA along the southern tier. A second set of five wells (06003, 19001, 25011, 30009, and 31005) was chosen to monitor the eastern side of RMA and provide contaminant boundary definition.

Denver Formation Well Network

The Denver Formation monitoring well network includes 140 onpost wells chosen from over 500 onpost wells completed in the Denver Formation. Individual wells in the monitoring network are listed by section in Table C-3. Following examination of Task 4 data, it was determined that the Denver Formation ground water flow and contaminant transport systems were not as well defined as those in the alluvial system. The monitoring network selected includes a larger percentage of Denver wells than were included in the Task 4 network to provide more Denver Formation well data. Additional Denver wells were also selected to provide monitoring in the Denver Formation beneath areas of unsaturated alluvium. Most of the selected Denver Formation wells were recently sampled under other RMA tasks as outlined below:

Current Task 25 wells	10
Task 4 wells	102
Historic wells	28
Total Task 44 Wells	140

The monitoring network attempted to utilize the best existing Denver Formation wells for both upgradient and downgradient monitoring of potential contaminant sites. Wells associated directly with five major potential contaminant sites are as follows:

Potential -----Contaminant Site-----	Denver Wells
South Plants	25
Basin A/A Neck Area	17
Basins B-E	13
Basin F	16
North Plants	10

Eight wells from Sections 4, 9, and 33 (western tier) are also included within the Denver well network to provide long-term monitoring of the organohalogen and DBCP contamination associated with the Railroad Classification Yard and potential offpost sources. Available information

Table C-3. Proposed Onpost Task 44 Monitoring Network
Denver Formation Wells (Page 1 of 2)

Section	Total Wells	Well Numbers
1	12	007, 008, 012, 015, 022, 025, 036, 037, 043, 047, 048, 050
2	14	009, 010, 012, 018, 019, 021, 025, 030, 031, 035, 036, 038, 039, 043
3	3	003, 004, 006
4	3	008, 009, 011
5	1	001
6	2	004, 005
7	1	004
8	1	005
9	1	003
11	1	004
12	2	003, 004
19	3	003, 015, 017
22	6	023, 024, 027, 028, 030, 031
23	18	053, 054, 161, 177, 180, 181, 182, 183, 184, 185, 186, 187, 189, 190, 192, 193, 209, 210
24	7	086, 089, 120, 124, 127, 130, 159
25	8	009, 013, 014, 016, 017, 021, 023, 039
26	15	019, 057, 058, 061, 066, 067, 071, 072, 075, 084, 086, 129, 140, 142, 147
27	4	049, 054, 055, 057

Table C-3. Proposed Onpost Task 44 Monitoring Network
Denver Formation Wells (Continued, Page 2 of 2)

Section	Total Wells	Well Numbers
<hr/>		
28	2	026, 028
30	1	011
32	1	002
33	4	016, 026, 032, 034
34	3	003, 006, 009
35	13	013, 016, 017, 036, 038, 039, 054, 056, 062, 063, 066, 067, 068
36	14	056, 066, 069, 083, 090, 110, 113, 114, 116, 117, 119, 121, 122, 154

Note: Current Task 25 Wells 10
Task 4 Wells 102
Historic Wells -28

Total Task 44 Wells 140

Source: ESE, 1988

suggested these contaminants were restricted to the alluvial aquifer, but monitoring of the Denver aquifer was considered warranted to ensure that contamination had not spread to the Denver Formation.

A set of five wells (07004, 08005, 11004, 12003, and 12004) were included in the Task 44 network to provide regional background monitoring of the Denver Formation waters in the Southern Tier. These wells also provide a general indication of Denver Formation water quality flowing onto RMA along the southern tier.

A set of eight wells (05001, 06004, 06005, 19003, 19015, 19017, 30011, and 32002) monitor the eastern sections of RMA. These wells provide background information on Denver Formation water quality.

Cluster configurations were given selection preference in the Task 44 network to investigate vertical differences in hydraulic head in the Denver Formation. Table C-4 lists all wells in the Task 44 network that are present in cluster configurations. A further breakdown by section and major aquifer is given in Table C-5.

PROPOSED ANALYTICAL SUITE

The objectives of the Task 44 chemical analysis program were to provide PMO-RMA with reliable, statistically supportable, and legally defensible chemical data regarding type and level of contamination in surface and ground water at RMA. Task 44 required various analytical techniques to be performed on collected samples to achieve a quantitative determination of water quality. Semiquantitative confirmation of analytes identified by quantitative methods and a semiquantitative identification of nontarget compounds are were included.

The modified schedule of 50 compounds utilized in Task 4 was adopted for Task 44, with the inclusion of benzothiozole and chlordane (C-6). This analytical schedule includes seven organochlorine pesticides, DCPD, methylisobutylketone (MIBK), DIMP, DMMP, DBCP, 6 organosulfur compounds, 5 volatile aromatics, 12 volatile organohalogens, and 15 inorganic parameters (Table C-7). Semiquantitative methods (GC/MS) will be used to screen for 24 purgeable and

Table C-4. Clustered Wells Incorporated in the Proposed Task 44
Monitoring Network* (Page 1 of 2)

Section	Clusters
1	(021*, 022), (024*, 025), (041*, 043)
2	(008*, 009, 010), (011*, 012), (020*, 021), (034*, 035, 036), (037*, 038, 039)
3	(002*, 003, 004), (005*, 006)
4	(007*, 008, 009), (010*, 011)
6	(003*, 004, 005)
8	(003*, 005)
9	(002*, 003)
11	(002*, 004)
12	(002*, 003, 004)
22	(021*, 023, 024)
23	(179*, 180, 181), (188*, 189, 190), (191*, 192, 193)
24	(158*, 159)
25	(011*, 013, 014), (015*, 016, 017), (022*, 023), (038*, 039)
26	(073*, 075), (083*, 084), (085*, 086), (127*, 129)
27	(053*, 054, 055)
29	(023*, 026), (027*, 028)
30	(009*, 011)
33	(030*, 032), (033*, 034)

Table C-4. Clustered Wells Incorporated in the Proposed Task 44
Monitoring Network* (Continued, Page 2 of 2)

Section	Clusters
34	(002*, 003), (005*, 006)
35	(034*, 036), (037*, 038, 039), (052*, 054), (061*, 062, 063), (065*, 066, 067, 068)
36	(065*, 066), (112*, 113, 114)
Off Post	(37343*, 37365)

* A well cluster is defined as containing at least one alluvial well
and one Denver Formation well.

* Alluvial well

Percentage of wells contained in cluster groupings = 36% (111 of 311 wells)

Source: ESE, 1988

09/28/88

Table C-5. Summary of Task 44 Monitoring Wells by Section

Section	Well Total	No. of Clusters ⁺	Alluvial	Denver
1	18	3	6	12
2	20	5	6	14
3	8	2	5	3
4	15	2	12	3
5	1	0	0	1
6	4	1	2	2
7	2	0	1	1
8	2	1	1	1
9	8	1	7	1
11	2	1	1	1
12	3	1	1	2
19	4	0	1	3
20	0	0	-	-
22	11	1	5	6
23	29	3	11	18
24	16	1	9	7
25	13	4	5	8
26	28	4	13	15
27	12	1	8	4
28	5	2	3	2
29	0	0	-	-
30	2	1	1	1
31	1	0	1	0
32	1	0	0	1
33	12	2	8	4
34	10	2	7	3
35	20	5	7	13
36	21	3	7	14
Off Post	43	1	42	1
TOTALS	311	47	170	141

Total alluvial wells as a percentage of Task 44 wells = 55%

⁺ Clusters are defined as containing at least one alluvial well and one Denver Formation well.

Source: EJE, 1988

Table C-6. Chemical Analysis - Task 44 (Page 1 of 2)

Analysis/Analytes	Hold Time	Level of Certification	Reference Methods	Method
<hr/>				
<u>Organochlorine Pesticides</u>		Quantitative	EPA 608	CAP-GC/ECD
Aldrin	Extract as quickly as possible. (No more than 7 days). Analyze within 40 days of extraction.			
Endrin				
Dieldrin				
Isodrin				
Hexachlorocyclopentadiene				
p,p'-DDE				
p,p'-DDT				
Chlordane				
<u>Volatile Organohalogens</u>		Quantitative	EPA 601	PACK-GC/Hall
Chlorobenzene	14 days			
Chloroform	14 days			
Carbon Tetrachloride	14 days			
trans-1,2-Dichloroethylene	14 days			
Trichloroethylene (TCE)	14 days			
Tetrachloroethylene	14 days			
1,1-Dichloroethylene	14 days			
1,1-Dichloroethane	14 days			
1,2-Dichloroethane	14 days			
1,1,1-Trichloroethane	14 days			
1,1,2-Trichloroethane	14 days			
Methylene Chloride	14 days			
<u>Organosulfur Compounds</u>		Quantitative		PACK-GC/FPD-S
P-Chlorophenylmethylsulfone (PCPMSO ₂)	Extract as quickly as possible. (No more than 7 days.) Analyze within 40 days of extraction.			
P-Chlorophenylmethylsulfoxide (PCPMSO)				
P-Chlorophenylmethylsulfide (PCPMS)				
1,4-Dithiane				
1,4-Oxathiane				
Dimethyldisulfide (DMS)				
Benzothiazol				
<u>Volatile Aromatics</u>		Quantitative		EPA 602
Benzene	14 days			
Toluene	14 days			
o,p xylene	14 days			
m,xylene	14 days			
Ethylbenzene	14 days			

Table O-6. Chemical Analysis - Task 44 (Page 2 of 2)

Analysis/Analytes	Hold Time	Level of Certification	Reference Methods	Method
<u>DCPD/MIBK</u> Dicyclopentadiene/ Methylisobutylketone	Extract as quickly as possible. (No more than 7 days). Analyze extract within 40 days of extraction.	Quantitative	EPA 608	CAP-GC/FID
<u>DIMP/DIMP</u> Diisopropylmethylphosphonate/ Dimethylmethylphosphonate	Analyze within 40 of extraction.	Qualitative	EPA 622	PACK-GC/FPD-P
<u>DBCP</u> Dibromochloropropane	Extract as quickly as possible (No more than 7 days). Analyze extract within 40 days of extraction.	Quantitative		CAP-GC/ECD
<u>Inorganics</u> Calcium Magnesium Sodium Potassium Cadmium Copper Chromium Lead Zinc Arsenic	Analyze within 6 months	Quantitative	EPA 200	Inductively Coupled Plasma
Mercury Chloride Fluoride Sulfate	Analyze within 28 days		EPA 245 EPA 300	Cold Vapor Ion Chromatograph
Nitrate + Nitrite	28 days with H ₂ SO ₄ (Ph of 2); 48 hours with chilling only		EPA 352.1	Auto Analyzer

Source: ESE, 1988.

Table C-7. Compounds Analyzed by Semiquantitative Methods

Analysis/Analytes	Hold Time	Level of Certification	Reference Methods	Method
<u>Purgeables</u>		Semiquantitative	EPA 624	GC/MS
Ethylbenzene	14 days			
Benzene				
MIBK				
DMS				
1,1-Dichloroethane				
1,2-Dichloroethane				
1,1,1-Trichloroethane				
1,1,2-Trichloroethane				
Methylene chloride				
Chloroform				
Carbon tetrachloride				
trans-1,2-Dichloroethylene				
Toluene				
Chlorobenzene				
Tetrachloroethylene				
Trichloroethylene				
m-Xylene				
o- and/or p-Xylene				
DBCP				
Dicyclopentadiene				
Bicycloheptadiene				
1,2-Dichloroethane				
Methylene chloride				
Ethylbenzene				
<u>Extractables</u>		Semiquantitative	EPA 625 (neutral extraction)	GC/MS
Aldrin	Extract as			
Atrazine	quickly as			
Chlordane	possible. (No			
PCPMS	more than 7			
PCPMSO	days). Analyze			
PCPMSO ₂	extract within			
DBCP	40 days of			
DCPD	extraction.			
4,4'-DDE				
4,4'-DDT				
Dieldrin				
DIMP				
Dithiane				
Endrin				
HCCPD				
Isodrin				
Malathion				
Oxathiane				
Parathion				
Supona				
Vapona				
2-Chlorophenol				
1,3-Dichlorobenzene				
Diethylphthalate				
Di-n-Octylphthalate				

Source: ESE, 1988

25 extractable compounds (Table), and to identify nontarget analytes. The analytical list was derived from various sources including:

- o An evaluation of contaminant source characteristics at RMA and compounds attributable to activities at these sites;
- o A review of the historical chemical data and recognition of compounds previously detected; and
- o Additional input from the Memorandum of Agreement (MOA) parties.

Approximately 10 percent of the collected samples were analyzed by GC/MS techniques. Wells with samples that contained a large number of analytes or with high baseline concentrations were given priority for GC/MS analysis.

Defensibility and technical quality of the data was assured by proper documentation of procedures used during the analytical survey. Sample preparation, materials, shipping, handling, chain-of-custody procedures, etc. were consistent with those required in Task 1.

SUMMARY OF COMPOSITE WELL PROGRAM DRILLING, WELL INSTALLATION, DEVELOPMENT, AND SAMPLING

The following section discusses the geotechnical program for Task 44. This includes well drilling, installation and development carried out under the composite well program, as well as well sampling procedures employed by Task 44.

DRILLING METHODS

Two drilling methods were selected for the construction of monitoring wells or for contaminant data acquisition in earth materials. These were rotary and hollow stem auger drilling. Personnel safety and sample integrity were the main factors in the selection of these two methods. Whether rotary or hollow stem auger was used at a particular site was determined by site conditions and proposed depth. Alluvial wells were generally drilled using auger methods, and Denver Fm wells with rotary methods. Monitoring wells were drilled using auger or rotary techniques according to conditions encountered at the site.

Techniques and procedures associated with the drilling program, including downhole geophysical surveys, were consistent with those outlined in Section 3.0 of the Task 1 Technical Plan as well as USATHAMA Geotechnical Requirements (1983).

Drilling equipment, including drill rods, samplers, tools, and water tanks, were steam cleaned prior to arrival at RMA and washed with approved water before arrival at each boring or well site. Water used in drilling, grouting, or decontamination was obtained at a source approved by the PMSO. Only USATHAMA approved lubricants, such as petroleum jelly, were used on the threads of downhole drilling equipment. Air usage was fully documented with equipment descriptions and oil filter specifications. Only USATHAMA approved air systems were used.

Continuous alluvial soil samples were collected using rotary or hollow-stem auger sampling techniques. The continuous soil samples were collected in polybutyrate tubes and transferred to a central logging facility. The soil samples were logged and then stored in the polybutyrate tubes or one-pint wide-mouth jars.

Rotary core drilling methods were used to collect 2 1/2-inch diameter rock cores. Hollow-stem augers or conductor casing were advanced into bedrock, sealed with bentonite, and then rinsed with approved water to minimize contamination from alluvial materials. The rock cores were taken from a depth of at least 5 ft below the water bearing unit that was to be screened. The rock cores were logged in detail, photographed, wrapped in plastic, and then stored in cardboard coreboxes.

WELL DRILLING AND INSTALLATION

Installation of monitoring wells began within 12 consecutive hours of borehole completion for uncased or partially cased holes, and within 60 consecutive hours for fully cased holes. Once installation had begun, no break in the installation process was made until the well had been grouted and the protective casing installed. All materials used in well construction were approved by USATHAMA and PMO-RMA prior to use.

Alluvial Wells

Alluvial wells were first drilled and continuously sampled using 3 1/4-inch ID hollow stem augers and split spoon samplers. Permeable zones were identified and the hole was reamed with an 8 1/4-inch ID hollow stem auger in preparation for completion with 4-inch PVC casing and screen. The hollow-stem augers were advanced 1 to 2 ft into bedrock. In general, wells were screened from the bedrock contact to approximately 5 ft above the water table surface. Wells were completed inside hollow-stem augers as shown in Figure.

Bedrock Wells

In general, bedrock wells were drilled using direct rotary methods. In instances when sloughing of alluvial material was not a problem, and precautions to prevent cross-contamination were not necessary the bedrock was drilled with hollow-stem augers. The utilization of hollow stem auger drilling for bedrock wells only occurred in a few locations.

In instances where cross-contamination was possible, the borehole was reamed and conductor casing were telescoped and grouted in place using Halliburton techniques. This procedure was followed until the aquifer to be monitored was encountered.

1.3 WELL CONSTRUCTION

Well construction was conducted within the hollow stem augers or within surface casing if rotary methods were employed. The various components of well construction were similar for both drilling methods. These include: screens, casing and fittings, sand pack, bentonite seal, gravel seal, and protective casing. Figures C-1 through C-7 illustrate the Denver well completion techniques implemented for a variety of natural situations. Typical alluvial well construction is illustrated in Figure C-8, while a schematic drawing of cluster site completion is shown in Figure C-9.

Well Screens, Casings, and Fittings

Well screens were commercially fabricated, 4-inch ID, high-flow, 20-slot (0.020-inch) PVC. A threaded PVC cap was fitted 6 inches below the screen openings. The screens were installed throughout the water bearing unit and

were attached to schedule 40 PVC casing by a nonrestrictive threaded joint.

Alluvial wells were screened 5 ft above the water table. Standard black iron pipe casings of various diameters were used to telescope down and prevent cross-contamination between aquifers. Prior to installation, all screens and casing materials were decontaminated and stored in plastic. This required cleaning and removal of all foreign matter (adhesive tape, labels, soil, grease, etc.) and washing with approved water. Casing tops were fitted with oversized hand-removable caps.

Stainless steel well centralizers were attached by stainless steel clamps only on the cased portion of the well and only above the sand pack. Boreholes that contained excessively thick or particulate-laden fluid, which could have interfered with casing and screen installation, were purged with USATHAMA-approved water.

Sand_Pack

The annular space between the casing/screen assembly and the borehole was filled with a gravel/sand pack to a depth of no less than 5 ft above the well screen. A 1-pint sample of gravel/sand pack material was submitted to PMO-RMA for approval prior to use on site. The material used was 8- to 12-mesh silica sand from Colorado Silica Sand, Inc. If water was needed to facilitate placement of the gravel/sand pack, a minimal amount of approved water was used. The volume of this water was recorded for subsequent removal during well development.

Bentonite_Seal

A 5 ft bentonite seal was placed in the annulus above the sand pack in most wells. In a few locations shallow ground-water table conditions prevented this. The thickness was that measured immediately after placement, without allowance for swelling. Commercially available bentonite pellets were used in all cases. This material met USATHAMA specifications and was approved by PMO-RMA prior to use on the site. Bentonite seals were placed as shown in Figures C-1 through C-9.

Grout Seal

Annular spaces in alluvial monitoring wells were sealed by pumping cement grout through a tremie-pipe placed at the bottom of the target interval, or by gravity placement within the hollow-stem auger. The grout was composed of 10 parts cement to a minimum of 1 part bentonite, and a maximum of 12 gallons of water per sack of cement.

The annular space between conductor casings in Denver Fm monitoring wells were pressure grouted from the bottom of the casing using Haliburton-type techniques. These materials met USATHAMA specifications and were approved by PMO-RMA prior to use on site. The grout seal was inspected for settlement 24 hours after placement and, if necessary, grout was added to the level of the ground surface.

Protective Casing

A lockable protective casing was set into the grout seal surrounding offpost wells. The 5-ft long protective casing was constructed from 8-inch-diameter steel pipe with a lid capable of being locked. The casing, cleaned of all foreign matter prior to use, was extended into the grout about 3.0 ft below the ground surface. The offpost wells were padlocked at the time of the installation of the protective casing. After installation, the outside of the protective casing was painted white, and the well identification was painted black. All painting was done with a paintbrush.

Aggregate cement was poured to a depth of about 0.5 ft above the ground surface in the annular space between the protective well casing and the outside of the monitoring well casing. A circular 4-ft diameter pad 0.5 ft thick was poured around the protective casing. A 0.25-inch-diameter drainage port was drilled in the protective casing just above the level of the internal mortar within the protective casing.

1.4 WELL DEVELOPMENT

Upon completion of the well installation, the monitoring wells were developed at least two weeks prior to sampling. Well development was conducted by means of either a submersible pump or a bottom discharge bailer, with or without a surge block. A minimum of five times the volume

of standing water in the well, sand pack, and annulus were removed, in addition to five times the volume of water that was added and lost during drilling or completing the well. The wells were developed until the water was clear, sediment-free and of consistent conductivity. Wells were not considered fully developed until the measured thickness of sediment remaining in the well was at 5 percent or less of the screen length. Most wells were developed to the point where sediment content was less than 2 percent.

Measurements obtained and recorded included static water level before and after development, field pH, and conductivity measurements before, during, and after development. Stability of these parameters was an indication of representative ground-water quality. For each well, a 1-pint sample of the last water to be removed during development was collected and retained. An example well development sheet is shown in Figure C-10.

2.3 GROUND-WATER SAMPLING PROCEDURES

The Task 44 ground-water monitoring procedures summarized below describe both methods for measurement of static water levels and for collection of water-quality samples. These methods are described in detail in the Task 44 Final Technical Plan (ESE, 1988).

Static water levels were measured with either Soil Test Model DR-760A or Solinst water-level indicators. Total depths were measured with bottom-weighted, nylon-coated steel measuring tapes. Measured values were reported to the nearest tenth of a foot. All pertinent information obtained during the water-level measurement effort was recorded on water-level measurement forms and in bound field notebooks. The following information was recorded for each well measured:

- o Well number;
- o Casing diameter;
- o Date and time;
- o Photoionization Detector (PID) readings;
- o Casing stickup above ground surface;
- o Depth to water from top of casing;
- o Total depth;

09/28/88

- o Water-level measuring device;
- o Observer's initials; and
- o Pertinent observations including well conditions.

On arriving at the well site, the following information was recorded on sample data sheets and in field notebooks:

- o Well number;
- o Date and time;
- o Pertinent observations including weather and well conditions;
- o Well information including station elevation, casing diameter, and screened interval;
- o Field instrument identification;
- o Initial PID readings for background and casing headspace;
- o Well stickup above ground surface;
- o Depth to water; and
- o Total well depth.

Field instruments were calibrated against known standards prior to purging each well. These instruments were used to monitor field parameters including pH, temperature, and conductivity. In addition, dissolved oxygen was monitored in all pumped wells. Field parameter values were recorded for a portion of the initial water discharged from the well, after each casing volume was removed, and immediately prior to sample collection. An alkalinity titration was also performed on the portion of the well water obtained immediately prior to sampling.

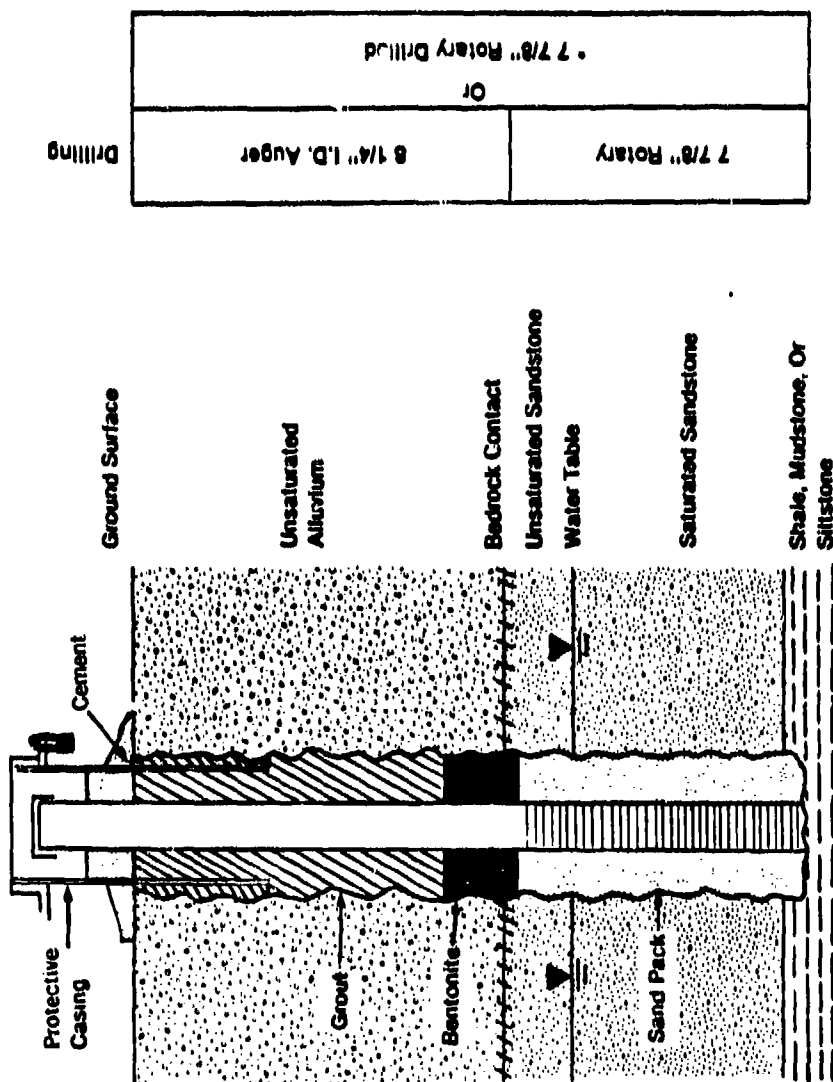
All wells were purged and sampled with either a pump or bailer. In general, wells containing less than 4 gallons/casing volume or known to dewater at one casing volume were purged and sampled by bailing; all other wells were pumped. The types of pumps used during the Task 44 sampling effort included 1.8-inch diameter ISCO Model 2600 bladder-type pumps, a 1.4-inch diameter Bennett Model 140 pump, and a 3-inch diameter Standard pump. An in-line flow cell consisting of an air-tight chamber fitted for instrument probes was used during purging in all pumped wells. Purged water from onpost wells was containerized at the well site. Offpost, purged water was discharged at least 50 ft from the well into natural drainage. A minimum of five casing

volumes were removed from each well prior to sampling; however, samples were not collected until field parameters had stabilized from three consecutive casing volumes. In the event that a well dewatered prior to the removal of five casing volumes or prior to stabilization of field parameters, samples were collected once sufficient recharge had been attained. If sufficient recharge was not attained within a 24-hour period, as many sample fractions were collected as possible.

Ground-water samples were collected either directly from pump discharge lines at low flow rates or from bottom-decanting bailers. All volatile and semivolatile sample fractions were filled completely and capped tightly to avoid air bubbles. Except for metals, all remaining sample fractions were filled to a minimum of 90-percent capacity. Metals fractions were filtered in the field using 0.45-micrometer nitrocellulose or cellulose acetate filters, filled to a minimum of 700 milliliters, and preserved with dilute nitric acid to a pH of 2 or less. Unfiltered nitrate fractions were preserved with sulfuric acid to a pH of 2 or less. All samples were placed on ice immediately upon filling and accompanied by appropriate chain-of-custody records.

All equipment used for sampling and water-level measurement was thoroughly decontaminated at the well site prior to storage. Each pump was decontaminated by triple rinsing all external parts with deionized water and pumping a volume of deionized water equal to three times the volume of the pump and hoses through the lines. All other equipment was cleaned in a solution of water approved by the Contracting Officer's Representative (COR) and trisodium phosphate, rinsed with COR-approved water, and triple rinsed with deionized water. All decontamination water was containerized at the well site.

Further description of Task 44 field procedures including sample shipment and documentation may be found in the Task 44 Final Technical Plan (ESE, 1988).

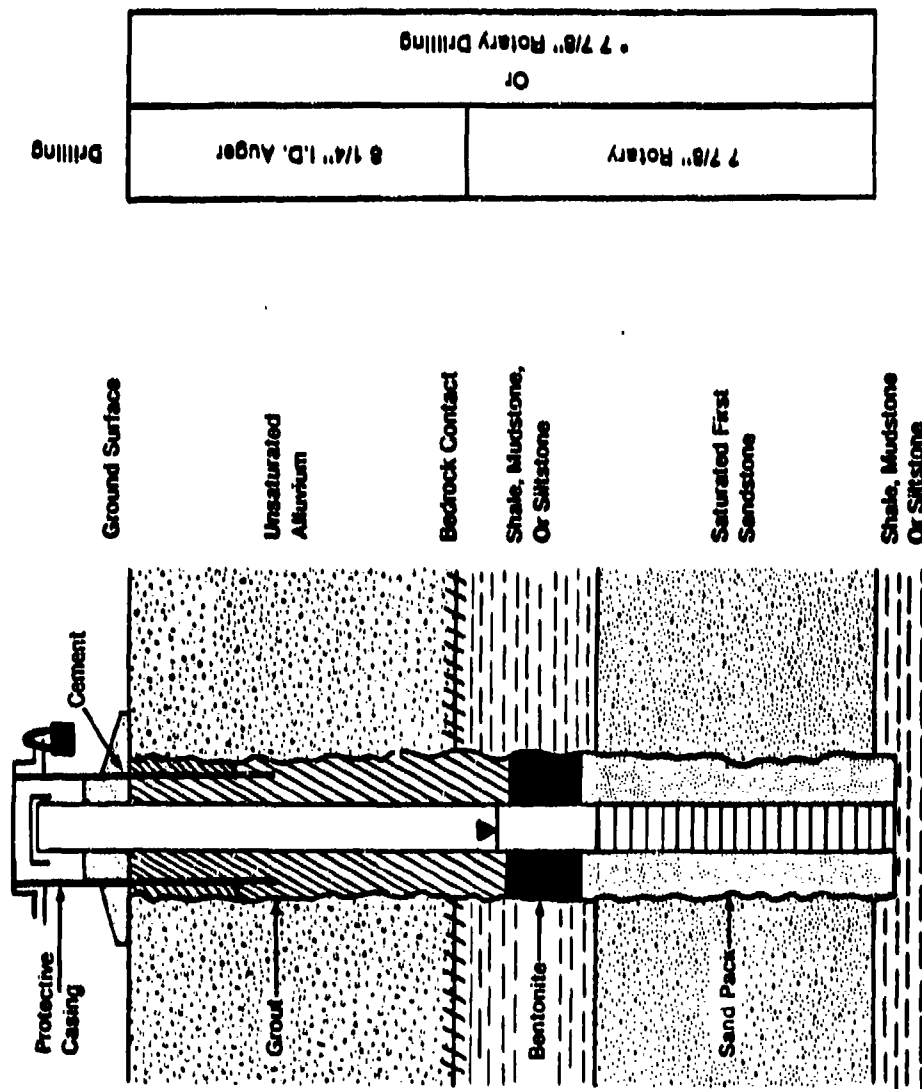


* Field Determination After Drilling Alluvium CENTRALIZERS WERE PLACED ON ALL BLANK CASINGS AT INTERVALS OF NO MORE THAN 40 FEET.

Figure C-1
GENERALIZED BEDROCK AQUIFER MONITOR WELL CONSTRUCTION
(DENVER FM WELL COMPLETED IN FIRST SANDSTONE, ALLUVIUM
UNSATURATED SANDSTONE AT THE ALLUVIAL-BEDROCK CONTACT,
SANDSTONE PARTIALLY SATURATED)

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



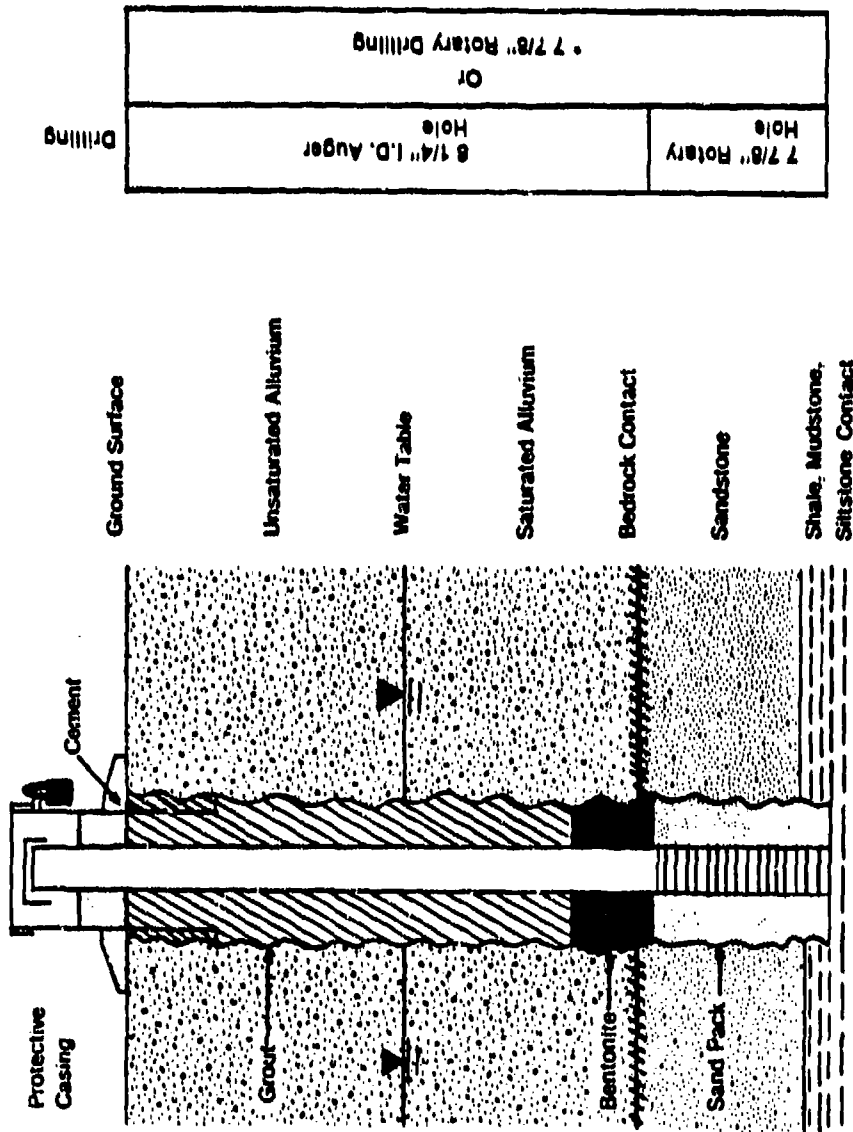
CENTRALIZERS WERE PLACED ON ALL BLANK CASINGS AT INTERVALS OF NO MORE THAN 40 FEET.

* Field Determined After Drilling Alluvium

Figure C-2
GENERALIZED BEDROCK AQUIFER MONITOR WELL CONSTRUCTION
(DENVER FM WELL COMPLETED IN FIRST SANDSTONE, ALLUVIUM
UNSATURATED, SHALE AT THE ALLUVIAL-BEDROCK CONTACT)

SOURCE: HANSEN/EESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



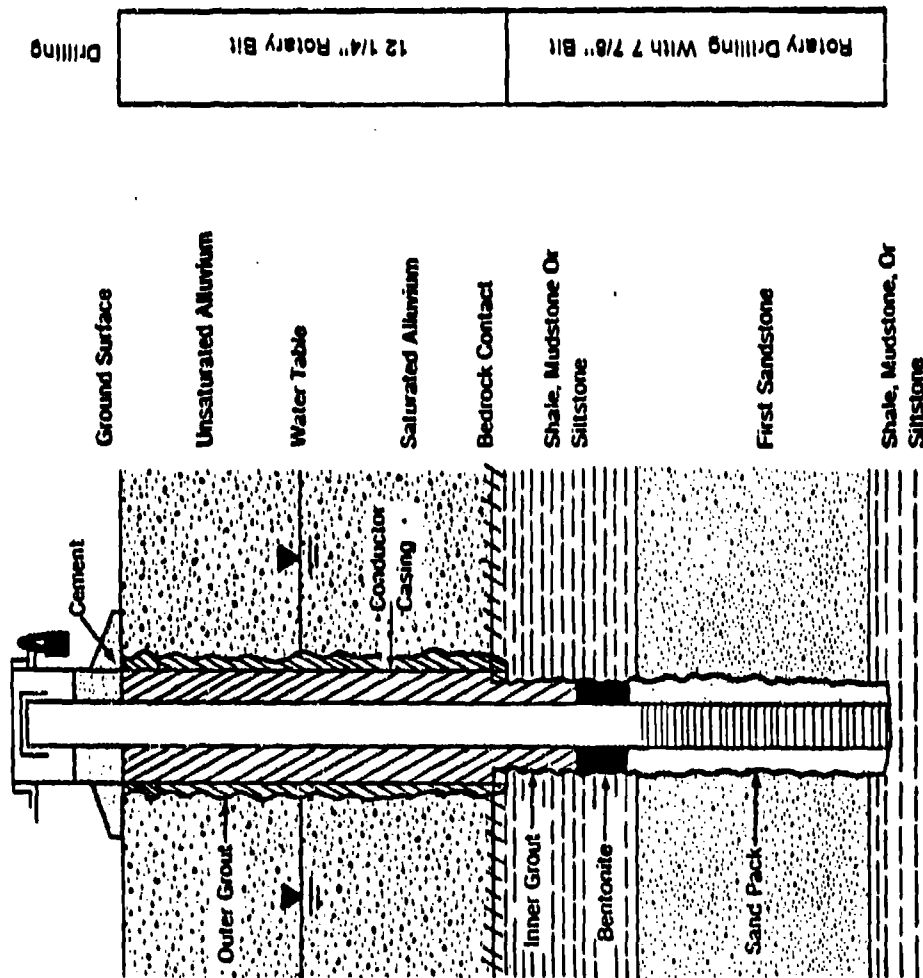
* Field Determination After Drilling Alluvium

CENTRALIZERS WERE PLACED ON ALL BLANK CASINGS AT INTERVALS OF NO MORE THAN 40 FEET.

Figure C-3
GENERALIZED BEDROCK AQUIFER MONITOR WELL CONSTRUCTION
(DENVER FM. WELL COMPLETED IN FIRST SANDSTONE, ALLUVIUM
SATURATED, SANDSTONE AT THE ALLUVIAL-BEDROCK CONTACT)

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



CENTRALIZERS WERE PLACED ON ALL BLANK CASINGS AT INTERVALS OF NO MORE THAN 40 FEET.

Prepared for:

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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

Figure C-4
GENERALIZED BEDROCK AQUIFER MONITOR WELL CONSTRUCTION
(DENVER FM. WELL COMPLETED IN FIRST SANDSTONE, ALLUVIUM
SATURATED, SHALE AT THE ALLUVIAL-BEDROCK CONTACT)

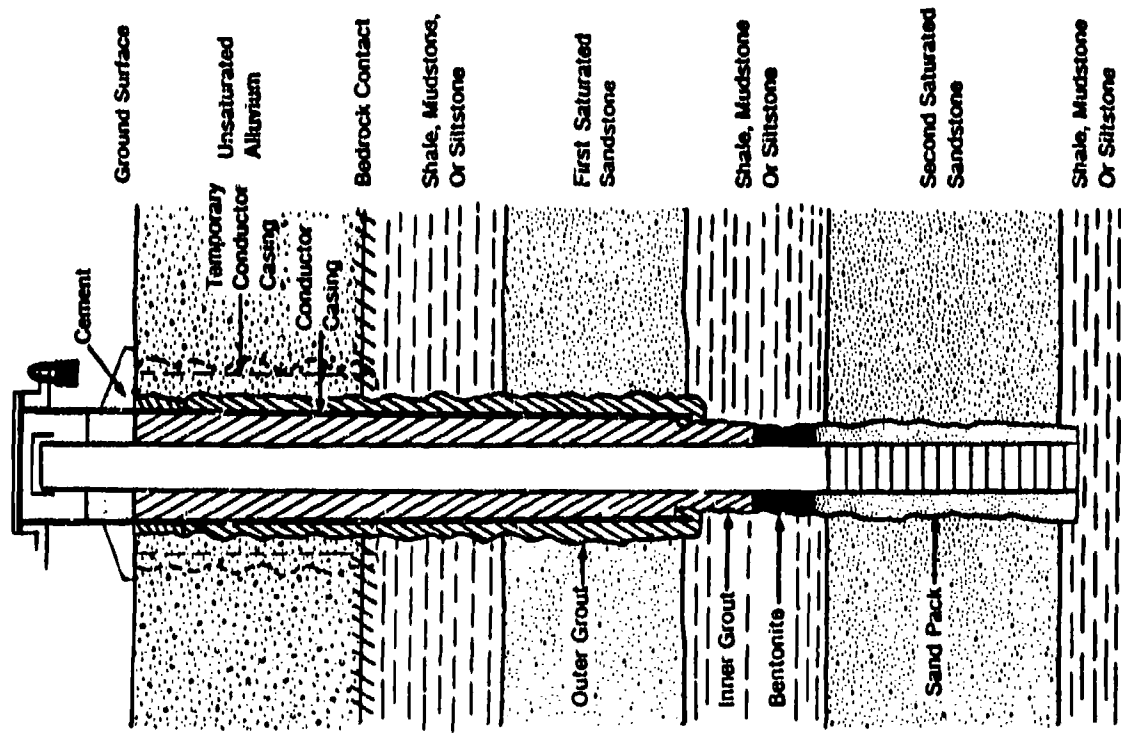
SOURCE: Hunter/ESE, 1988

CENTRALIZERS WERE PLACED ON ALL BLANK CASINGS AT INTERVALS OF NO MORE THAN 40 FEET.

**Figure C-5
GENERALIZED BEDROCK AQUIFER MONITOR WELL CONSTRUCTION
(DENVER FM WELL COMPLETED IN SECOND SANDSTONE, ALLUVIUM
SATURATED, SHALE AT THE ALLUVIAL-BEDROCK CONTACT)**

SOURCE: HUNTER/FESE, 1988

**Prepared for:
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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**



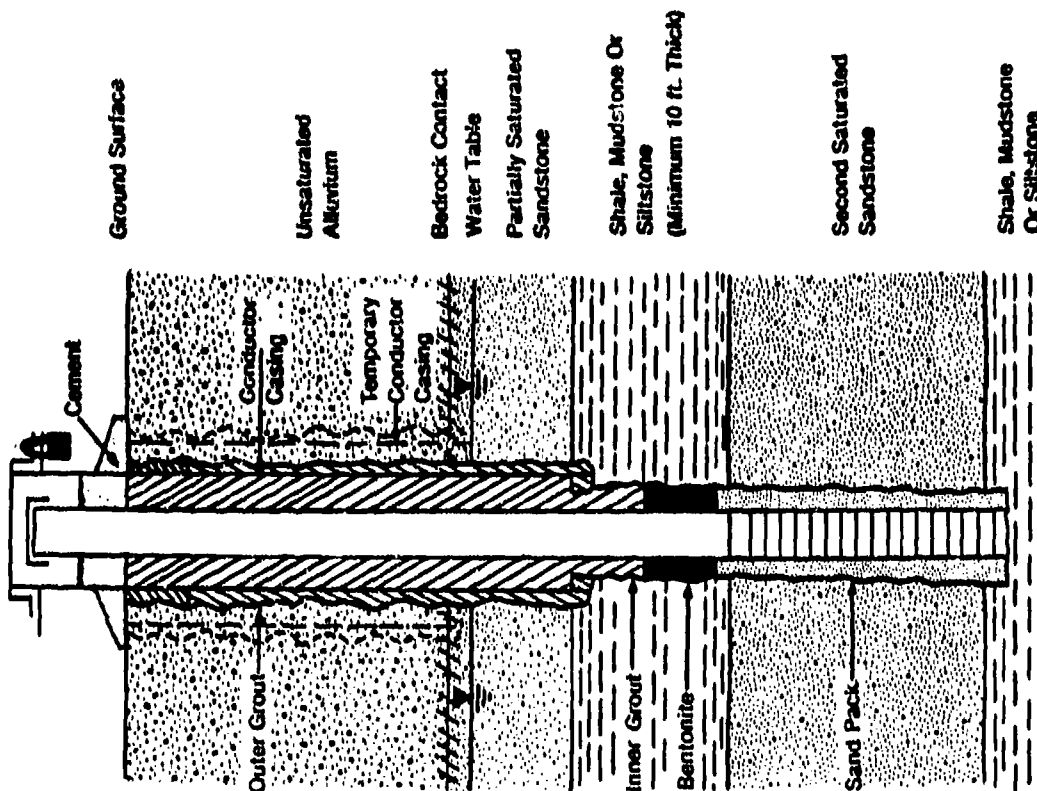
Drilling	Rotary With 12 1/4" Bit	Rotary With 7 7/8" Bit	Rotary With 7 7/8" Bit
		Rotary With 11 7/8" Bit	* 15 7/8 Rotary Conductor Casing

* Field Determination After Drilling Alluvium
CENTRALIZERS WERE PLACED ON ALL BLANK CASINGS
AT INTERVALS OF NO MORE THAN 40 FEET.

Figure C-6
GENERALIZED BEDROCK AQUIFER MONITOR WELL CONSTRUCTION
(DENVER FM WELL COMPLETED IN SECOND SANDSTONE, ALLUVIUM
UNSATURATED, SHALE AT THE ALLUVIAL-BEDROCK CONTACT,
FIRST AND SECOND SANDSTONE SATURATED)

SOURCE: USE, 1988

Prepared for:
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Drilling	Rotary With 12 1/4" Bit	Rotary With 7 7/8" Bit
	Rotary With 7 7/8" Bit	Rotary With 7 7/8" Bit

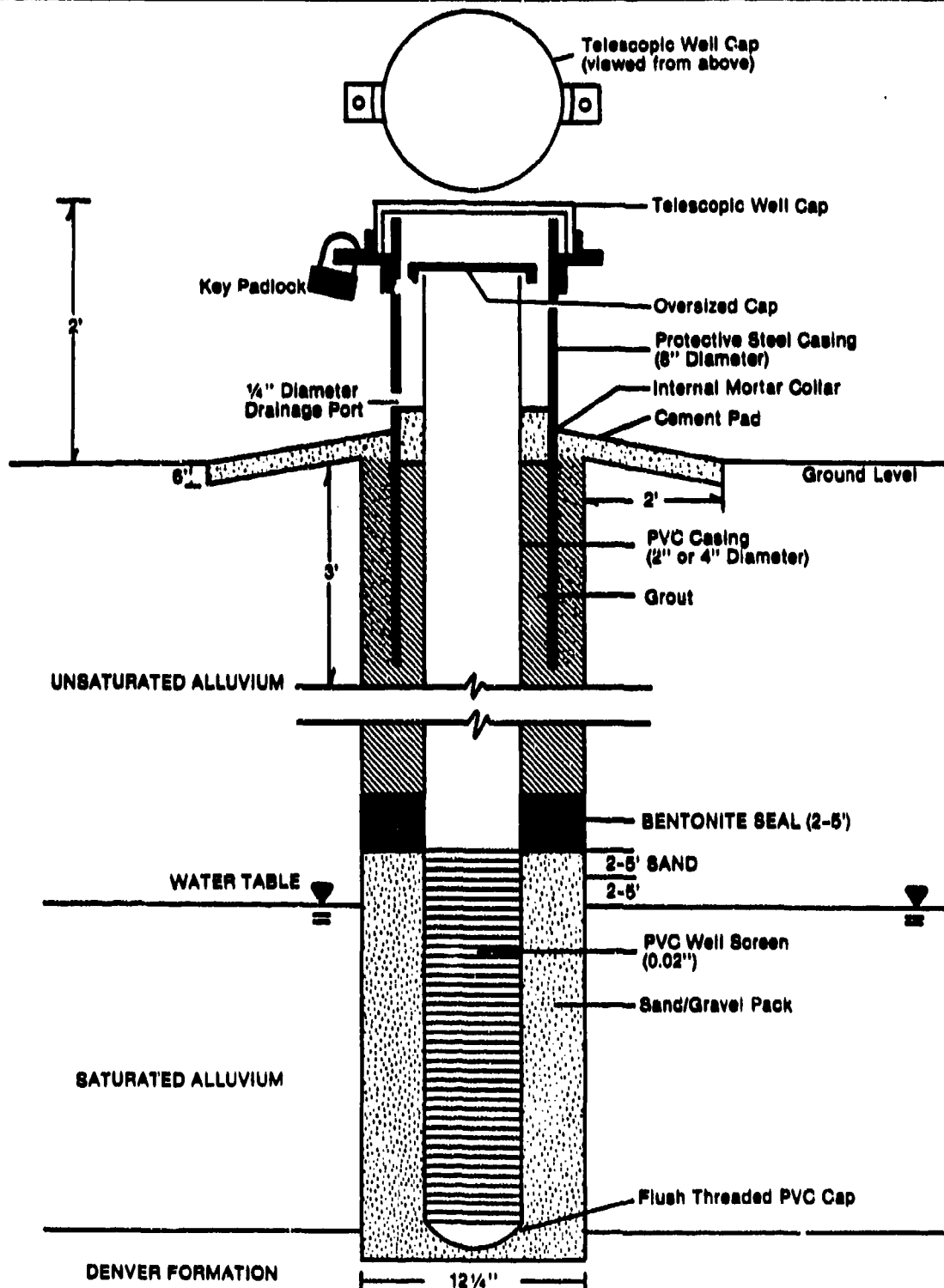
CENTRALIZERS WERE PLACED ON ALL BLANK CASINGS
AT INTERVALS OF NO MORE THAN 40 FEET.

* Field Determination After Drilling Alluvium

Figure C-7
GENERALIZED BEDROCK AQUIFER MONITOR WELL CONSTRUCTION
(DENVER FM WELL COMPLETED IN SECOND SANDSTONE, ALLUVIUM
UNSATURATED, SATURATED SANDSTONE AT THE ALLUVIAL-
BEDROCK CONTACT)

SOURCE: Hunter/ISE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



SCALE DIAGRAMMATIC

CENTRALIZERS WERE PLACED ON ALL BLANK CASINGS AT INTERVALS OF NO MORE THAN 40 FEET.

Figure C-8

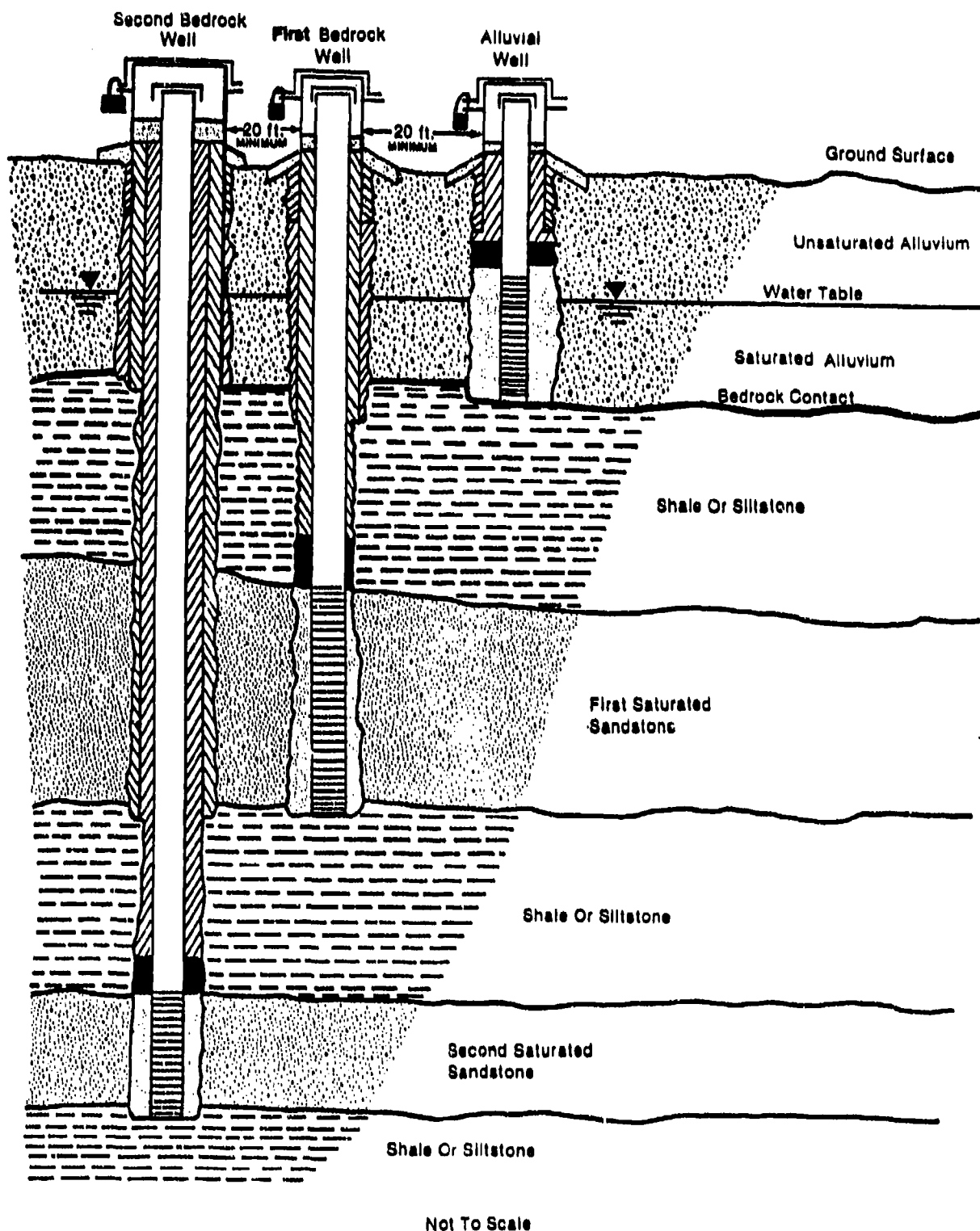
GENERALIZED AQUIFER MONITOR WELL CONSTRUCTION

SOURCE: Hunter/ESE, 1968

Prepared for:

**U.S. Army Program Manager's Office
For Rocky Mountain Arsenal**

Aberdeen Proving Ground, Maryland



CENTRALIZERS WERE PLACED ON ALL BLANK CASINGS
AT INTERVALS OF NO MORE THAN 40 FEET.

Figure C-9
SCHEMATIC DRAWING OF A TYPICAL
CLUSTER WELL INSTALLATION

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

ESE ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.
7332 SOUTH ALTON WAY • SUITE H-1
ENGLEWOOD, COLORADO 80112 • 303/741-0639

SHEET _____ OF _____

WELL DEVELOPMENT DATA

Bore _____ Well _____

Project _____ Project Number _____

Date(s) Developed _____ Date Installed _____

Personnel (Name/Company) _____ Well Diameter (I.D.) _____ in.

Anulus Diameter _____ in. _____ ft. to _____ ft.

Rig Used _____ Screen Interval _____ ft. to _____ ft.

Pump (Type/Capacity) _____ Casing Height (Above G.L.) _____ ft.

Bailer (Type/Capacity) _____ Bottom of Screen (Below G.L.) _____ ft.

Water Source _____

Measured Well Depth TOC (Initial) _____ ft.

(Final) _____ ft.

Water Level TOC/Date/Time (Initial) _____

(after 24 hrs.) _____

Feet of Water in Well _____ ft. x _____ gallons/foot = _____ gallons casing/anulus volume

Drilling Fluid Lost _____ gallons One Purge Volume _____ gallons

Purge Water Lost _____ gallons Minimum Purge Volume _____ gallons

Added Water _____ gallons Total Purge Volume _____ gallons

Casing/Anulus Volume _____ gallons Volume Measured By _____

Surge Technique _____

Calibration: pH Meter Used: _____

pH 7.00 = _____ at _____ °C, pH 10.00 = _____ at _____ °C

Conductance Meter Used: _____

Standard _____ umhos/cm at 25°, Reading _____ umhos/cm at _____ °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
Final					

Remarks: _____

Collected by _____ Signature _____ Date _____

Checked by _____ Signature _____ Date _____

Figure C-10
WELL DEVELOPMENT DATA FORM

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

APPENDIX C.2: WELL CONSTRUCTION DATA

EP-53

BOREHOLE SUMMARY LOG

Borehole EP-53 Well 23220, 23221, 23222
Project Name and Location MW Installation - Task 44 Project Number 12053 058 10
Drilling Company Gouge Driller Roach Rig Number Failing 25
Drilling Method(s) Rotary - with bentonite drill mud
Size(s) and type(s) of bit(s) 7 7/8" blade, 3 7/8" tricone
Borehole Diameter 7 7/8 in. _____ cm. _____ 0 _____ ft. _____ cm. to _____ 40 _____ ft. _____ cm.
3 7/8 in. _____ cm. _____ 40 _____ ft. _____ cm. to _____ 132 _____ ft. _____ cm.
Sampling Methods Continuous core
Total Number Soil Sampling Tubes _____
Total Number Core Boxes 0
Number of Gallons Lost Drilling Fluid ≈ 300
Date/Time Started Drilling 7-29-87 0941
Date/Time Completed Drilling 4-30-87 1535
Total Borehole Depth 132 ft. _____ cm.
Depth to Bedrock 40 ft. _____ cm.
Depth to Water _____ ft. _____ cm.
Water Level Determined By? _____
Borehole Completed as Monitoring Well? No
Date/Time Grouting Completed 5-1-87 0944
Depth of Tremie Pipe 130 ft.
Gallons of Grout 90 gals.
Materials Used 4 bags cement, 90 gals. water, partial bag bentonite
Comments poured to surface - PVC removed as much as possible
(≈ 4' below ground)
Wellsite Geologist C Benson Date 5-1-87
Checked for Grout Settlement on 5/2/87 by John Han
Amount of Grout Added none needed
All Measurements from Ground Level Yes
Reviewed by John Han Date 7-1-87
Drill Site Geologist _____ Date _____

Borehole: EP53A

Well Number: 23220

SOILS LOG					
Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification Description
0 - 2	0 - 2	100%	0 - 2	0 - 2	<u>ML</u> Silt/sand/clay - clay 40%, silt 20%, sand 20%, 2.5 y 4/4 olive brown, med. dense, nonplas., dry - occas. roots.
2 - 4	2 - 4	100%	2 - 4	2 - 4	<u>SM</u> Silty sands - silt 12%, clay 1% (slight), 10 yr 5/4 yellowish brown, loose, nonplas, dry, occas. calc. rich area
4 - 6	4 - 6	100%	4 - 6	4 - 6	} interbed of <u>SC</u> - clayey sand - clay 40% - 10 yr 3/6 - dk. yellowish brown, dense, nonplas, dry - 6" - calc/dolo. intensified to 2" band calc/dolo. about 5% - throughout sample 4-8"
6 - 8	6 - 8	100%	6 - 8	6 - 8	
8 - 10	8 - 10	100%	8 - 10	8 - 10	<u>CL</u> <u>CLAY (SANDY)</u> - sand 20% - 10 yr 4/4 dk. yellowish brown - med. dense, nonplas, dry
10 - 12	10 - 12	100%	10 - 12	10 - 12	
12 - 13	12 - 13	100%	12 - 13	12 - 13	

Drill Site Geologist: C. L. Lites Log: C. L. Lites Date: 5/12/87

Reviewed By: [Signature] Date: 5/12/87

Borehole:

EP 53A

Well Number:

23220

Depth - feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
12	12			12	CL	CLAY (sandy) Sand 20% - 10gr 4/4 dk yellowish brown, med. dense, nonplastic, dry
14	14	100%		14		
14	14			14		
16	16	100%		16		
16	16			16		
18	18	80%		18		
18	18			18	17.5' SW	GRADED SANDS - 10% gravel, 2.5gr 4/4 olive brown, loose, nonplastic, dry
20	20	70%		20		gravel usually rounded to subrounded, 1/4" - 1/2", pink
20	20			20		
22	22	80%		22	21' SC	clayey sand - clay 30% - 2.5gr 4/2 dk grayish brown, med. dense, nonplastic, sl. moist (?)
22	22			22	CL	clay - 2.5gr 4/2 dk grayish brown, dense, nonplastic, dry
24	24	100%		24		
24	24			24	23' CP	Gravel/sand

Drill Site Geologist:

G. L. Lewis

Log:

C. Benson

Date:

5-12-87

Reviewed By:

G. L. Lewis

Date:

5-12-87

Borehole: EP53A Well Number: 23220

Depth - feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
	24'- 26'	98%		24'- 26'	GP	gravel/sand mixture - gravel 60% - gravel subangular to subround 10 yr 5/4 yellowish brown, loose, non plas, dry
26'	26'- 28'	80%		26'- 28'	SP	SANDS - fine, 10 yr 5/4 yellowish brown, loose, non plas, dry gravel appears at 26' - gravel 10% - mostly 1/2 or smaller (pea-size), well rounded -
28'	28'- 30'	100%		28'- 30'		
30'	30'- 31.2'	100%		30'- 31.2'		
31.2'	31.2'- 33'	80%		31.2'- 33'		31.2' gravel increases to 2" down to "4", subangular approx. 15%
33'	33'- 35'	50%		33'- 35'		Moist sample at 34'
35'	35'- 37'	90%		35'- 37'		saturated, -water at 35'

Drill Site Geologist: C. L. Lister

Date: 5/12/87

Reviewed By: [Signature]

Date: 5/12/87

Borehole: EP 53A

Well Number: 23220

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
38	37- 39	100%		37- 39		<p>SP gravelly sands, gravel 10%, 10 yr 5/4 yellowish brown, (weak), non, clay sat. → 36.6 - 36.8' clay/weathered bedrock seam</p> <p><u>BEDROCK</u> at 38'</p> <p>claystone - 5y 5/3 olive - soft & weathered</p>
40						<p>END OF BORING AT 40'</p>

Drill Site Geologist: C. L. Furr Log: C. L. Furr Date: 7-12-87
Reviewed By: dt Date: 7-12-87

BOX NO.	DEPTH	Reg. Int.	U	S	Structure / Bedding		Hard. ness	Perm		Mineralogy		Color	Feature / Grain Size			Lith. Char.	Lith. Class	Description / Comments
					Angle	Desc.		1"	2"	Min	Max		cl	10	100			
												(M) G						CM (Scale 1" = <u>2</u> ft)
	42											2.54						casing set to 41'- bedrock at 38'- see Alluvial Log
	44					?						5/2						
	46											quartz brown						
	48																	Very poor recovery: all recovered looks like claystone (and quartz/granite cobbles - from up hole) However, Resistivity log indicates sandstone from 46' to 49' - samples show no evidence of this - but it fits projection from other holes - <u>Lignite</u> -
	50					massive						2.54						
	52					highly fractured						N70						
	54					massive						black						CL CLAYSTONE carbon-rich claystone
	56											2.54						
	58											N50						
												gray						clay to 20% clay. silt to 2% clay to 5%

E, Inc. BORE EP-53 WELL(S)

[illegible]

[illegible]

DEPTH Feet	Reg. Int.	U	S	Structure/ Bedding		Hard- ness		Perm.		Mineralogy		Color (M) G	Texture/ Grain Size clst ad gr mm	Lith. Char	Lith. Class	Description/Comments
				Angle	Desc.	S	H	1 st	2 nd	Min	Major					
																CM (Scale 1" = <u>2</u> ft)
122												2.54		Silt to 30%		CLAYSTONE - silty
124												27/0				
												Liquid				
												gray				
122																122' carbon fig - twig clearly distinguished - 2" dia
124																SANDSTONE INTERBED
124																SANDSTONE
																Finer than uphole - more friable
126																
128																CLAYSTONE
130																
132																END OF HOLE AT 132'

ESE, Inc. BORE EP-53 WELL(S) _____

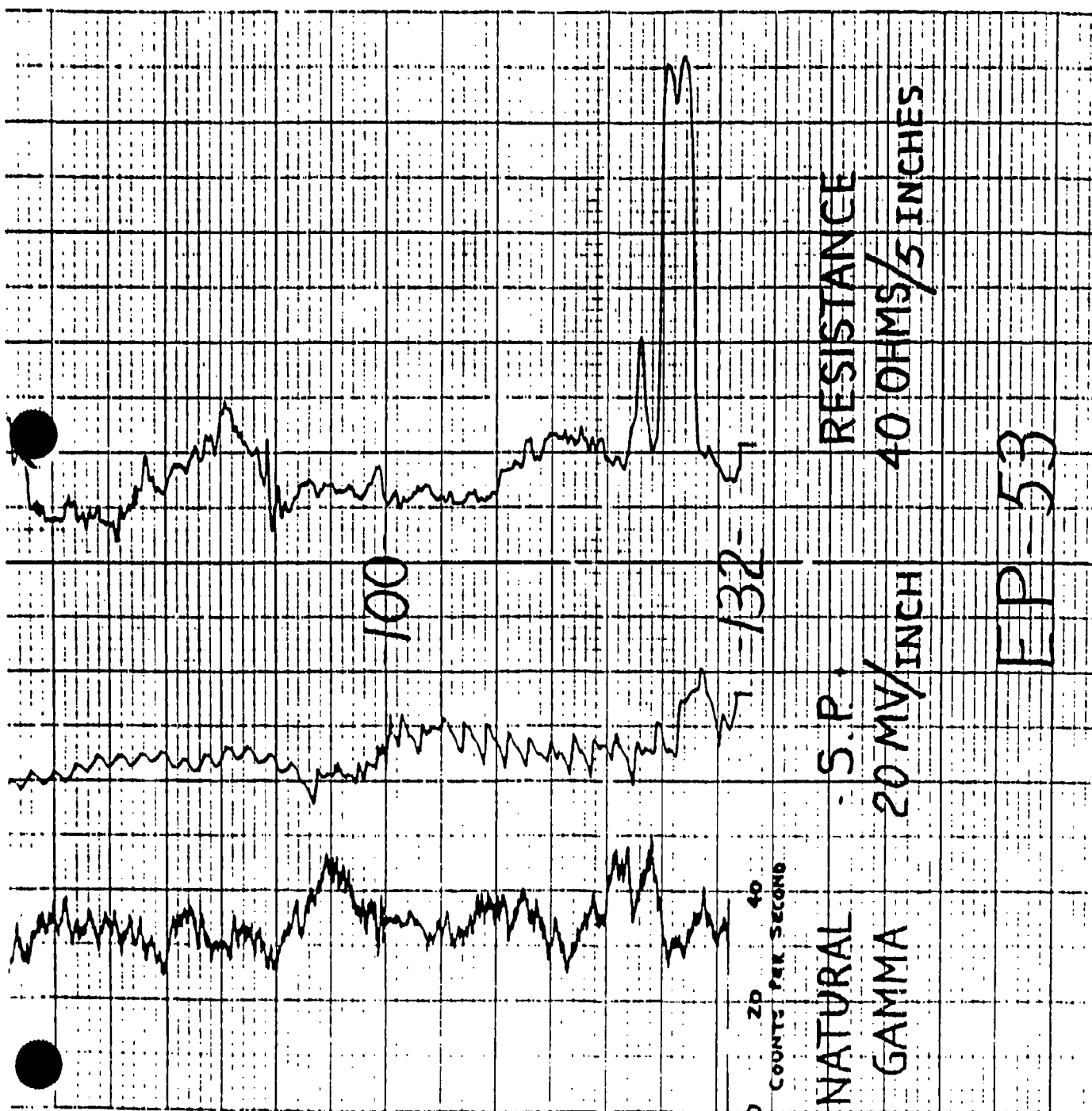
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CASING

S.P. BIAS

50



WELL CONSTRUCTION SUMMARY

Borehole EP-53A Well EA-53A ^{SP} 23220
Project Name and Location Task 04 200 Yds Nor Basin F Tank pad Project Number 17052 022.10
Drilling Company Boylas Bros Driller Dave Jarvis Rig Number 5451
Drilling Method(s) Auger

Borehole Diameter 12 1/4 in. _____ cm. _____ ft. _____ cm. to 25 39.07 ft. _____ cm.
_____ in. _____ cm. _____ ft. _____ cm. to _____ ft. _____ cm.

Size(s) and types of Bit(s) Auger

Size and Type PVC 4" .020 slot

Total Borehole Depth 39.07 ft. _____ cm.

Depth to Bedrock 32 ft. _____ cm.

Depth to Water 35 ft. _____ cm.

Water Level Determined By Sample

Length Plain PVC (total) 29.88 ft. _____ cm.

Length of Screen 10.39 ft. _____ cm.

Total Length of Well Casing 40.77 ft. _____ cm.

PVC Stick Up 17 ft. _____ cm.

Depth to Bottom of Screen 39.07 ft. _____ cm.

Depth to Top of Screen 29.18 ft. _____ cm.

Depth to Top of Sand 22.6 22.97 ft. _____ cm.

Depth to Top of Bentonite 17.8 ft. _____ cm.

Sampling Method(s) Continuous Split Spoon

Date/Time Start Drilling 5/2/97 0855

Date/Time Finish Drilling 5/2/97 1442

Date/Time Start Completion 5/2/97 1442

Date/Time Cement Protective Casing 5/2/97 1000

Materials Used 20 2" TUBES 40 CAPS

Plain PVC 3 - 10' SECTIONS

Slotted PVC 1 - 10' SECTIONS

Bentonite Pellets ✓

Bentonite Granular 6 BAGS

Cement 11 BAGS

Sand 11 BAGS

Water added during completion 300 GALS

Water added during drilling 0

Total Gallons of water added 300 GALS

Drill Site Geologist Greg L

Date 5/13/97

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 5-16-97 TO RECORD

Date/Time/Personnel Casing Painted 06-17-97 0800 PJB DLW

Date/Time/Personnel Numbers Painted 6-17-97 0945 PJB DLW

Materials Used 12 bags of salt

Top of Protective Casing to Top of PVC 0.34 ft. 0.34 cm.

Top of Protective Casing to Weep Hole 1.43 ft. 1.43 cm.

Top of Protective Casing to Internal Mortar 1.43 ft. 1.43 cm.

Top of Protective Casing to Top of Cement Pad 1.57 ft. 1.57 cm.

Top of Protective Casing to Ground Level 2.2 ft. 2.2 cm.

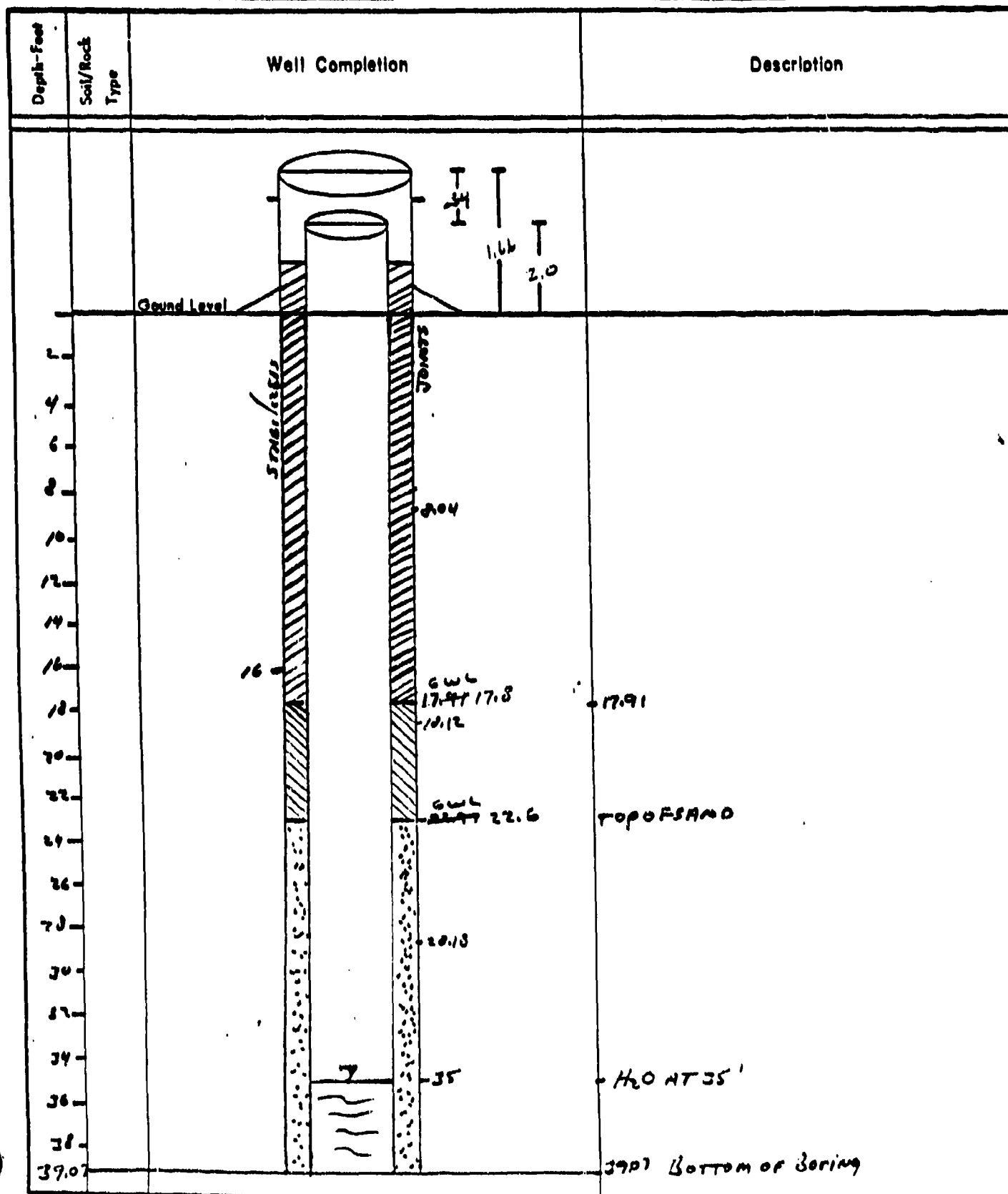
COMMENT/NOTES

Reviewed By Tom Perce Date 7/2/97

Drill Site Geologist _____ Date _____

Borehole: EP-53A

Well: 23220
SP-53A SP

Drill Site Geologist: [Signature]

Reviewed By : A /

Date: 5/13/87

Date: 4/2/98

WELL DEVELOPMENT DATA

Project RMA ON POST Bore EP 53A Well 23220
Date(s) Developed 06-22-87 Project Number 44
Personnel (Name/Company) JSB ESE Date Installed 05-07-87
DLW ESE Well Diameter (I.D.) 4 in.
Rig Used ESE Well Service TRUCK Anulus Diameter 12 1/4 in. 0 ft. to 39.07 ft.
Pump (Type/Capacity) GRUND FOS 12 GPM Screen Interval 23.18 ft. to 39.07 ft.
Bailer (Type/Capacity) N/A Casing Height (Above G.L.) 1.7 ft.
Water Source RMA Bottom of Screen (Below G.L.) 39.07 ft.
Measured Well Depth TOC (Initial) 40.65 ft.
(Final) 40.75 ft.
Water Level TOC/Date/Time (Initial) 36.43 06-22-87 0845
(after 24 hrs.) 36.36 6:26 AM 1151
Feet of Water in Well 4.22 ft. x 2.32 gallons/foot = 9.79 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 309.79 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 1548.95 gallons
Added Water 300 gallons Total Purge Volume 1550 gallons
Casing/Anulus Volume 9.79 gallons Volume Measured By 5 gal Bucket Time
Surge Technique Raise + Lower Purge
Calibration: pH Meter Used: Beckman 021 Digital SN: 015883
pH 7.00 = 7.01 at 22.9 °C pH 10.00 = 10.04 at 22.2 °C
Conductance Meter Used: Curtin Matheson Digital SN: 14274
Standard 408 umhos/cm at 25°, Reading 190.8 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25 °C	Physical Characteristics (clarity, odor, sand content, color)	
Initial	0	0900	23.7	809	940:	Silty - brown gray 11-12 mg. HNU 0.5 (initial or wall ka)
310	1058	16.3	7.43	3510		Slightly silty - H. gray. HNU 1.25 mg.
Final						JSB

Remarks: HNU at Well Head 6.0 after 10 min

Collected by Phillip Bue 06-22-87
Signature _____ Date _____
Checked by _____
Signature _____ Date _____

WELL DEVELOPMENT DATA

Bore E53 A Well 23220
Project RMA ON POST Project Number _____
Date(s) Developed 06/23/87 Date Installed 05-07-87
Personnel (Name/Company) DLW/ESE Well Diameter (I.D.) 4 in.
ABW/ESE Annulus Diameter 12 1/4 in. 0 ft. to 39.07 ft.
Rig Used ESE Well Service Truck Screen Interval 23.18 ft. to 39.07 ft.
Pump (Type/Capacity) Grundfos 1/2 GPM Casing Height (Above G.L.) 1.7 ft.
Bailer (Type/Capacity) N/A Bottom of Screen (Below G.L.) 39.07 ft.
Water Source RMA
Measured Well Depth TOC (Initial) 40.65 ft.
(Final) 40.73 ft.
Water Level TOC/Date/Time (Initial) 36.43 06-22-87 0845
(after 24 hrs.) 36.36 06-23-87 1151
Feet of Water in Well 4.22 ft. x 2.32 gallons/foot = 9.79 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 309.79 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 1548.95 gallons
Added Water 300 gallons Total Purge Volume 1550 gallons
Casing/Annulus Volume 9.79 gallons Volume Measured By 5 gal Bucket + Time
Surge Technique Raise & Lower Pump
Calibration: pH Meter Used: Beckman 421 Digital SN: 015883
pH 7.00 = 7.01 at 21.1 °C, pH 10.00 = 10.05 at 21.2 °C
Conductance Meter Used: CMS SN: 14274
Standard 1400 umhos/cm at 25°, Reading 1409 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
310	0857	16.4	7.37	3500	cloudy, brown, silty & much fine sand
620	0904	14.0	7.42	3540	clear, no silt or sand H-B: nra.
930	1500	13.7	7.28	3510	clear, no silt or sand H-B: nra.
1122	1604	12.6	7.35	3590	slightly cloudy, some silt H-B: nra.
Final					

Remarks: initial: H₂O = 0.0 ppm, H₂O readings after pumping = 1.5-3.5 ppm.
- used 2 more barrels to complete last purge volume (118 gallons)

Calibration after lunch: (1306)
pH 7.00 @ 26.2 °C pH 10.00 @ 26.2 °C
conductivity: _____

Collected by DLW 06.23.87
Signature _____ Date _____
Checked by 11
Signature _____ Date _____

WELL DEVELOPMENT DATA

Project BMA ON Post Bore E53A Well 23220
Date(s) Developed 06-24-87 Project Number _____
Personnel (Name/Company) PJR ESE Date Installed 05-07-87
D&W ESE Well Diameter (I.D.) _____ in.
Rig Used ESE Well Service Truck Annulus Diameter 1 3/4 in. 0 ft. to 39.07 ft.
Pump (Type/Capacity) Grundfos / 12 GPM _____ in. _____ ft. to _____ ft.
Bailer (Type/Capacity) N/A Screen Interval 23.18 ft. to 39.07 ft.
Water Source RMA _____ ft. to _____ ft.
Measured Well Depth TOC (Initial) 40.65 ft. Casing Height (Above G.L.) 1.7 ft.
(Final) 40.75 ft. Bottom of Screen (Below G.L.) 39.07 ft.
Water Level TOC/Date/Time (Initial) 36.43 06-22-87 0845
(after 24 hrs.) 36.31 06-26-87 / 1151
Feet of Water in Well 4.22 ft. x 2.32 gallons/foot = 9.79 gallons casing/anulus volume
Drilling Fluid Los: N/A gallons One Purge Volume 309.79 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 1548.95 gallons
Added Water 300 gallons Total Purge Volume 1550 gallons
Casing/Anulus Volume 9.79 gallons Volume Measured By 5 gal Bucket Timed
Surge Technique Raise & Lower Pump
Calibration: pH Meter Used: Becton & Dickinson Digital SN: 015883
pH 7.00 = 7.01 at 20.3 °C, pH 10.00 = 10.06 at 24.3 °C
Conductance Meter Used: CMS SN: 4274
Standard 1408 umhos/cm at 25°, Reading 1408 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 1122	0755	16.7°C	7.36	3550	cloudy, gray-brown, fine-grained M-B neg. foundation sand present
1240	0829	13.1	7.37	3600	clear, no color, no odor M-B: neg. no sand/silt
1550	1030	13.9	7.30	3560	clear, no color, no odor no sand/silt, M-B: neg.
Final					

Remarks: Initial NH₄ = background - 0.2 ppm (at well head)
NH₄ = background (0.0) ppm after 110 minutes (at well head)
NH₄ = 2.9 ppm after 145 minutes (at well head)
Collected by J. C. [Signature] Date 06-24-87
Checked by [Signature] Date 06-24-87

WELL CONSTRUCTION SUMMARY

Borehole EP-53D1 Well 23221
Project Name and Location MW Installation Sect. 23 Project Number 17053 083 10
Drilling Company Borplus Driller Roach Rig Number Fauling 25
Drilling Method(s) rotary w/ bentonite mud

Borehole Diameter 11 7/8 in. 0 ft. 41 ft. 50 1/2 ft.
7 7/8 in. 41 ft. 50 1/2 ft.

Size(s) and types of Bit(s) 11 7/8, 7 7/8 blade

Sampling Method(s) NA

Size and Type PVC 4" sched. 40

Date/Time Start Drilling 8/18 5:7:87

Date/Time Finish Drilling 0904 5:7:87

Total Borehole Depth 49 ft. cm.

Date/Time Start Completion 5:7:87 0935

Depth to Bedrock 36 ft. cm.

Date/Time Cement Protective Casing 5:7:87 1210

Depth to Water 35 ft. cm.

Materials Used —

Water Level Determined By soil sample saturation

Plain PVC 5 x 60'

Length Plain PVC (total) 45 50.7 ft. cm.

Slotted PVC 1 x 5'

Length of Screen 5.70 ft. cm.

Bentonite Pellets 1 1/4 buckets

Total Length of Well Casing 50.7 ft. cm.

Bentonite Granular 4 1/5 bags

PVC Stick Up 1.7 ft. cm.

Cement 80 qals

Depth to Bottom of Screen 75.49 ft. cm.

Sand 1.25 bags

Depth to Top of Screen 43.3 ft. cm.

Water added during completion —

Depth to Top of Sand 42.3 ft. cm.

Water added during drilling —

Depth to Top of Bentonite 38.3 ft. cm.

Total Gallons of water added —

Drill Site Geologist C Benson

Date 5:7:87

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 06-17-87 07:30 PJB DH

Date/Time/Personnel Casing Painted 06-17-87 0830 PJB DH

Date/Time/Personnel Numbers Painted 13 bags, quickcrete, 1 roll tin, 1 roll ex, 1 roll pvc

Materials Used 13 bags quickcrete 1 roll tin (06-17-87 0845 PJB DH)

Top of Protective Casing to Top of PVC 0.3 ft. cm.

COMMENT/NOTES

Top of Protective Casing to Weep Hole 0.63 ft. cm.

Top of Protective Casing to Internal Mortar 0.77 ft. cm.

Top of Protective Casing to Top of Cement Pad 1.93 ft. cm.

Top of Protective Casing to Ground Level 2.50 ft. cm.

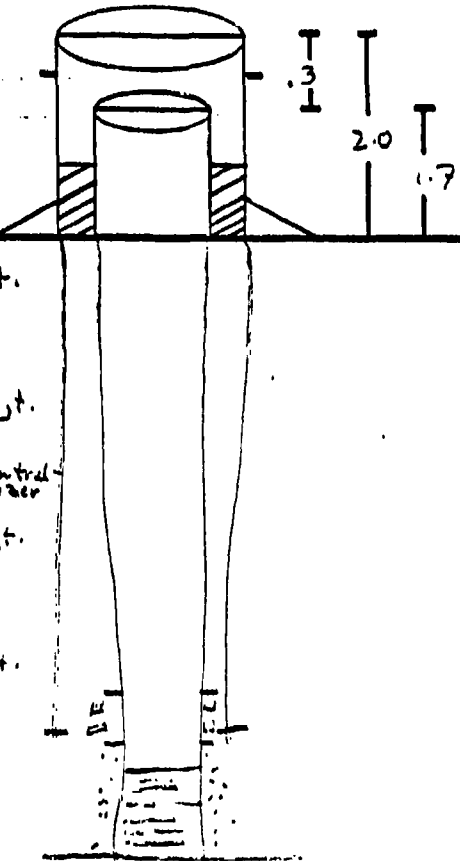
Reviewed By [Signature]

Date 5:7:87

Drill Site Geologist — Date —

Borehole: EP53D1

Well: 23221

Depth-Feet	Soil/Rock Type	Well Completion	Description
			
5		4.05 ft.	
10		14.11 ft.	
15		20.0 centraliser	
20		24.19 ft.	
25		34.25 ft.	
30			
35			TOP OF BENTONITE 33.3'
40			8" steel casing - 41'
45			TOP OF SAND 42.5' (*)
50			TOP OF SCREEN 43.3'
			Total Depth 49'
			<p>(*) NOTE: THIS 1' FOOT SAND AREA WHERE THE SCREEN (WITH 1/2" HOLES) STANDARD (3-5") WAS NOT REACHED REMARK OF Pete Grant, CSE.</p>

Drill Site Geologist: J. Benson

Reviewed By: J. Benson

Date: 5-7-87

Date: 4-9-88

WELL DEVELOPMENT DATA

Project RMA ON-POST Bore EP 53-26 Well 23221
Date(s) Developed 06/26/87 Project Number TASK 44
Personnel (Name/Company) DLW/ESE Date Installed 05/07/87
Rig Used ESE WELLSERVICE TRUCK Well Diameter (I.D.) 4 in.
Pump (Type/Capacity) GRANDPRAIR 12 GPM Annulus Diameter 11 3/8 in. 0 ft. to 41 ft.
Bailer (Type/Capacity) N/A Screen Interval 7 7/8 in. 41 ft. to 49 ft.
Water Source RMA Casing Height (Above G.L.) 1.7 ft.
Measured Well Depth TOC (Initial) 49.20 ft. Bottom of Screen (Below G.L.) 49 ft.
(Final) 50.84 ft.
Water Level TOC/Date/Time (Initial) 36.44 / 06-26-87 / 0856
(after 24 hrs.) 36.6 / 6-28-87 / 1145
Feet of Water in Well 12.76 ft. x 2.653 gallons/foot = 8.33 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 14.04 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 7.2 gallons
Added Water 0 gallons Total Purge Volume 17.6 gallons
Casing/Annulus Volume 8.33 gallons Volume Measured By 5 GALLON BUCKET / TIMED
Surge Technique RAISE & LOWER PUMP
Calibration: pH Meter Used: BECKMAN 621 S.N.: 015883
pH 7.00 = 7.00 at 24.4 °C, pH 10.00 = 10.02 at 24.3 °C
Conductance Meter Used: CMS DIGITAL S.N.: 11339
Standard 140P umhos/cm at 25°, Reading 408 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 0	0915	19.9	12.10	4650	cloudy, grout or sand at bottom
15	1030	22.8	12.29	3280	cloudy, silty w/ grout or sand
	1133	Well dewatered in 3 3/4 gallons			
Final					

Remarks: INITIAL HNU @ WELLHEAD = 0.0 ppm.
SANDPACK VOLUME = $0.852 \times 6.74 = 5.71 \text{ gal.} + 8.33 \text{ gal.} = 14.04 \text{ gal.} = 1 \text{ Purge Volume}$
Well dewatered @ $\approx 9.0 \text{ min. (0 min.) 0934}$
Sandpack = $99.0 - 42.3 = 56.7 \text{ gal.}$
Collected by [Signature] Date 06/26/87
Checked by [Signature] Date 31 6

WELL DEVELOPMENT DATA

Project RMA ON POST Bore EP53D1 Well 23221
Date(s) Developed 07/06/87 Project Number T-44
Personnel (Name/Company) TLW/ESE Date Installed 05-07-87
PTB/ESE Well Diameter (I.D.) 4 in.
Rig Used ESE well service TRUCK Anulus Diameter 11 7/8 in. 0 ft. to 41 ft.
Pump (Type/Capacity) N/A 2 3/4 in. 41 ft. to 49 ft.
Bailer (Type/Capacity) 3.85" x 2' Screen Interval 43.3 ft. to 49 ft.
Water Source RMA Casing Height (Above G.L.) 1.7 ft.
Measured Well Depth TOC (Initial) 49.20 ft. Bottom of Screen (Below G.L.) 49 ft.
(Final) 50.84 ft.
Water Level TOC/Date/Time (Initial) 36.44 06-26-87 0856 (36.44 07-06-87 0747)
(after 24 hrs.) 41.55 36.6 9/28/87 1145
Feet of Water in Well 12.76 ft. x 0.653 gallons/foot = 8.33 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 14.04 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 70.2 gallons
Added Water 0 gallons Total Purge Volume 176 gallons
Casing/Anulus Volume 8.33 gallons Volume Measured By 5 gal Bucket
Surge Technique Bailing
Calibration: pH Meter Used: Becton DP2 SN: 015883
pH 7.00 = 7.00 at 24.1 °C, pH 10.00 = 10.03 at 21.6 °C
Conductance Meter Used: GMS DIGITAL SN: 14274
Standard 1000 umhos/cm at 25°, Reading 1002 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 19	0801	12.4	12.01	4210:	very slightly cloudy, some formation sand.
35	0958	13.5	12.71	5830	cloudy, sand & gravel present
40	1050	14.6	12.63	5570	very cloudy w/ carbonate/gravel
41	1405	14.0	12.67	5400	slightly cloudy gray w/ silt.
46	1409	12.3°	12.74	5460	low w/ gray silt, gravel
Final					

Remarks: 6.7 Ft Sand Pack x .852 = 5.71 + 8.33 = 14.04 casing/anulus
161 : Well deaerated @ 11 1/2 gallons on 1st surge : well deaerated @ 7 gallons on 2nd surge
BNL @ wellhead = 0.0 ppm initially : well deaerated @ 3 gallons on 3rd surge.

Reclamation @ 1320 SN: 015883

pH 7.00 = 6.98 @ 32.1°C
pH 10.00 = 9.95 @ 32.5°C

Collected by TLW Signature TLW Date 07/06/87
Checked by TLW Signature TLW Date 07/06/87

WELL DEVELOPMENT DATA

Project RMA ON-POST Bore EP 53 0-1 Well 2.3221
Date(s) Developed 07/07/87 Project Number T-44
Personnel (Name/Company) DW/USE Date Installed 05-07-87
DJB/USE Well Diameter (I.D.) 4 in.
Rig Used ESE well frame pump Anulus Diameter 11 3/4 in. 0 ft. to 41 ft.
Pump (Type/Capacity) N/A 7 7/8 in. 41 ft. to 49 ft.
Bailer (Type/Capacity) 3.85 x 2' Screen Interval 73 ft. to 49 ft.
Water Source RMA Casing Height (Above G.L.) 1.7 ft.
Measured Well Depth TOC (Initial) 49.20 ft. Bottom of Screen (Below G.L.) 49 ft.
(Final) ft.
Water Level TOC/Date/Time (Initial) 36.44/06-24-87 (37.13/7-7-87/07M)
(after 24 hrs.) 36.6 7/28/87 1145
Feet of Water in Well 12.76 ft. x 0.653 gallons/foot = 8.33 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 14.04 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 72.2 gallons
Added Water 0 gallons Total Purge Volume 176 gallons
Casing/Anulus Volume 8.33 gallons Volume Measured By 5 gallon bucket
Surge Technique Bubbling
Calibration: pH Meter Used: Beckman 021 SN: 015883
pH 7.00 = 7.02 at 18.3 °C, pH 10.00 = 10.08 at 18.1 °C
Conductance Meter Used: CMS DIGITAL SN: 14274
Standard 1001 umhos/cm at 25°, Reading 1001 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 46	07.21	12.6	12.83	5050	mostly clear - some settle out of fm. San
58	0.731	12.7.	12.91	54 P0	cloudy, gray carbonate/greasy
Final					

Remarks: Initial H₂O at wellhead = 0.2 ppm (0715); Well developed @ 12 ft. (0731);

Sand Packer vol:

0.7 ft sand pack x 0.86 = 0.602 gal.

Water Volume vol = 8.33 + 0.602 = 8.932 = surge vol.

Collected by [Signature]

Checked by [Signature]

Signature

Signature

Date

Date

WELL DEVELOPMENT DATA

Bore EP53 DL Well 23221

Project RMA ON POST Project Number T-44

Date(s) Developed 07-09-87 Date Installed 05-07-87

Personnel (Name/Company) DLW/ESE Well Diameter (I.D.) 4 in.

PTB/ESE Anulus Diameter 11 1/2 in. 0 ft. to 4 ft.

Rig Used ESE WELL SERVICE TRUCK Screen Interval 22 1/2 in. 4 ft. to 49 ft.

Pump (Type/Capacity) N/A 42 3 ft. to 49 ft.

Bailer (Type/Capacity) 3.85 x 2' 1.7 ft. to 1.7 ft.

Water Source RMA Casing Height (Above G.L.) 1.7 ft.

Measured Well Depth TOC (Initial) 49.20 ft. Bottom of Screen (Below G.L.) 49 ft.

(Final) 36.44 ft.

Water Level TOC/Date/Time (Initial) 36.44 / 06-26-87/0856 (30.44 / 07-06-87/0747)

(after 24 hrs.) 36.6 9/28/87 1145

Feet of Water in Well 12.76 ft. x 0.653 gallons/foot = 8.33 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 14.04 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 70.2 gallons

Added Water 0 gallons Total Purge Volume 176 gallons

Casing/Anulus Volume 8.33 gallons Volume Measured By 5 GALLON BUCKET

Surge Technique RAILING

Calibration: pH Meter Used: Beckman 421 SN: 015083

pH 7.00 = 7.03 at 17.1 °C, pH 10.00 = 10.09 at 17.4 °C

Conductance Meter Used: CMS DIGITAL SN: 14243

Standard 1408 umhos/cm at 25°, Reading 1406 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial <u>46.58</u>	<u>0759</u>	<u>12.3</u>	<u>12.74</u>	<u>67.80</u>	<u>mostly clear</u>
<u>71</u>	<u>0809</u>	<u>12.4</u>	<u>12.86</u>	<u>8020</u>	<u>Cloudy w/ grey discoloration</u>
					<u>Sanitary & Ration Sand</u>
Final					

Remarks: Well decontaminated in 13 gallons (0809)

$$\text{Sand pack} = 6.74 \times 3.82 \text{ gal} = 5.71 \text{ gal}$$

$$5.71 + 8.33 = 14.04 \text{ gallons} = 1 \text{ purge vol.}$$

Collected by [Signature] 07/08/87 Date

Checked by [Signature] Signature Date

WELL DEVELOPMENT DATA

Bore EP 532L Well 23221

Project T-44 Project Number 5-7-87

Date(s) Developed 7/13/87 Date Installed 5-7-87

Personnel (Name/Company) DLW/ESE Well Diameter (I.D.) 4 in.

ABW/ESE Annulus Diameter 113 in. 0 ft. to 41 ft.

Rig Used ESE WELL SERVICE TRUCK Screen Interval 73 in. 41 ft. to 49 ft.

Pump (Type/Capacity) N/A Casing Height (Above G.L.) 6.7 ft.

Bailer (Type/Capacity) 3.85 X 2' Bottom of Screen (Below G.L.) 49 ft.

Water Source PMA

Measured Well Depth TOC (Initial) 4930 ft.

(Final) ft.

Water Level TOC/Date/Time (Initial) 36.44/10-26-87/856 (36.44/7-6-87/0747)

(after 24 hrs.) 36.6 9/2/87 1145

Feet of Water in Well 12.76 ft. x 0.653 gallons/foot = 8.33 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 14.02 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 70.2 gallons

Added Water 0 gallons Total Purge Volume 176 gallons

Casing/Annulus Volume 8.33 gallons Volume Measured By 5 GALLON BUCKET

Surge Technique BAILING

Calibration: pH Meter Used: BECKMAN 021 SN: 015353

pH 7.00 = 7.04 at 4.7 °C, pH 10.00 = 10.12 at 15.2 °C

Conductance Meter Used: CMS DIGITAL SN: 14274

Standard 1408 umhos/cm at 25°, Reading 1409 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>71</u>	<u>0904</u>	<u>11.9°C</u>	<u>12.75</u>	<u>5820</u>	<u>MOSTLY CLEAR</u>
<u>84</u>	<u>0914</u>	<u>12.0°C</u>	<u>12.93</u>	<u>8120</u>	<u>cloudy w/gray dissolved</u>
					<u> Bentonite & FORMATION SAND</u>
Final					

Remarks: Initial NNU @ wellhead = 0.0 ppm

well DEWATERED AT 13 GALLONS.

Send pack vol = $6.7' \times .862 \text{ gal/ft} = 5.71 \text{ gal}$

$5.71 + 8.33 = 14.04 \text{ gal} = 1 \text{ purge vol.}$

Collected by [Signature] 7/13/87 Date

Checked by [Signature] 3.6.87 Date

WELL DEVELOPMENT DATA

Project RMA ON POST Bore EPS3DL Well Z3221
Date(s) Developed 7/14/87 Project Number TASK 44
Personnel (Name/Company) DLW/ESE Date Installed 5-7-87
ADW/ESE Well Diameter (I.D.) 4 in.
Rig used 255 WELL SERVICE TRUCK Annulus Diameter 11 1/2 in. 0 in. to 41 in.
Pump (Type/Capacity) N/A Screen Interval 28 in. 41 in. to 49 in.
Bailer (Type/Capacity) 3.85 x 2' 43.3 in. to 49 in.
Water Source RMA NEW 3 in. to 49 in.
Measured Well Depth TOC (Initial) 45.20 ft. Casing Height (Above G.L.) 1.7 in.
(Final) 0 ft. Bottom of Screen (Below G.L.) 49 in.
Water Level TOC/Date/Time (Initial) 36.44 / 06-26-87 (36.44 / 7-6-87 / 0747)
(after 24 hrs.) 36.6 7/24/87 1145
Feet of Water in Well 12.76 ft. x 0.653 gallons/foot = 8.33 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 14.02 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 70.2 gallons
Added Water 0 gallons Total Purge Volume 176 gallons
Casing/Annulus Volume 9.33 gallons Volume Measured By SMALL BUCKET
Surge Technique BAILING
Calibration: pH Meter Used: #015883 (Beckman) 21 pH METER
pH 7.00 = 7.07 at 20.4 °C. pH 10.00 = 10.07 at 20.4 °C
Conductance Meter Used: #14274 (C.M.S. DIGITAL)
Standard 1408 umhos/cm at 25°. Reading 1408 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>84</u>	<u>0837</u>	<u>12.3</u>	<u>12.66</u>	<u>7360</u>	<u>clear</u>
<u>96 1/2</u>	<u>0850</u>	<u>12.2</u>	<u>12.71</u>	<u>8070</u>	<u>cloudy, gray dissolved iron & formation sand.</u>
Final					

Remarks: Initial ANN @ well head = 00 ppm. Well dewatered in 12 1/2 minutes

1 purge vol. = 5.71 (sand pack vol.)
+ 8.33 (casing/annulus vol.)
14.04 gal.

Collected by [Signature] 7/14/87 Date
Checked by [Signature] R Date

WELL DEVELOPMENT DATA

Project RMA ON PEST Bore EP-53 DI. Well 23221
Date(s) Developed 7/20/87 Project Number TASK 44
Personnel (Name/Company) DLW / ESE Date Installed 5-7-87
ABW / ESE Well Diameter (I.D.) 4 in.
Rig Used ESE WELL SERVICE TRUCK Anulus Diameter 13 1/2 in. 0 ft. to 41 ft.
Pump (Type/Capacity) N/A 2 1/2 in. 4 ft. to 49 ft.
Bailer (Type/Capacity) 3.85' x 2.0' Screen Interval 423 ft. to 49 ft.
Water Source RMA Casing Height (Above G.L.) 1.7 ft.
Measured Well Depth TOC (Initial) 4520 ft. Bottom of Screen (Below G.L.) 49 ft.
(Final) ft.
Water Level TOC/Date/Time (Initial) 36.44/06-26-87/0856 (36.44/7-6-87/0747) ()
(after 24 hrs.) 36.6 7/27/87 145
Feet of Water in Well 12.76 ft. x 0.653 gallons/foot = 8.33 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 14.02 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 70.7 gallons
Added Water 0 gallons Total Purge Volume 176 gallons
Casing/Anulus Volume 8.33 gallons Volume Measured By 5 GALLON BUCKET
Surge Technique BAILING
Calibration: pH Meter Used: DECKMAN 621 SN: 015883
pH 7.00 = 6.94 at 25.4 °C. pH 10.00 = 10.00 at 26.5 °C
Conductance Meter Used: CMS DIGITAL SN: 14243
Standard 1000 umhos/cm at 25°. Reading 1002 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25 °C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>96 1/2</u>	<u>1050</u>	<u>13.4</u>	<u>12.47</u>	<u>4030</u>	<u>clear</u>
<u>108</u>	<u>1400</u>	<u>12.8</u>	<u>12.73</u>	<u>6040</u>	<u>somewhat cloudy w/ dissolved barium & iron</u>
Final					

Remarks: Initial MIN @ wellhead = 20 ppm (7/20/87: 1025)
Well deaerated in 1 1/2 gallons!
Purge vol = 5.71 (sand pack vol.)
+ 8.33 (casing/anulus vol.)
14.04 gals
Collected by DLW Date 7/21/87
Checked by DLW Signature 3/1/88 Date 3/1/88

WELL DEVELOPMENT DATA

Project RMN ON POST Bore EP-53 D1 Well 23221
Date(s) Developed 7/24/87 Project Number TASK 44
Personnel (Name/Company) DLW/ESE Date Installed 5/7/87
ARW/ESE Well Diameter (I.D.) 4 in.
Rig Used ESE WGN SERVICE TRUCK Anulus Diameter 11 3/4 in. 0 ft. to 41 ft.
Pump (Type/Capacity) N/A 7 1/2 in. 41 ft. to 49 ft.
Bailer (Type/Capacity) 3.85" x 2.0' Screen Interval 13.3 ft. to 49 ft.
Water Source RMN — ft. to — ft.
Measured Well Depth TOC (Initial) 46.20 ft. Casing Height (Above G.L.) 1.7 ft.
(Final) — ft. Bottom of Screen (Below G.L.) 49 ft.
Water Level TOC/Date/Time (Initial) 36.44 / 6-26-87 / 0836
(after 24 hrs.) 36.6 / 9/14/87 / 1145
Feet of Water in Well 12.76 ft. x .653 gallons/foot = 8.23 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 1402 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 702 gallons
Added Water 0 gallons Total Purge Volume 176 gallons
Casing/Anulus Volume 8.23 gallons Volume Measured By 5 gallon bucket
Surge Technique BAILING
Calibration: pH Meter Used: BECKMAN 1721 SN: 015883
pH 7.00 = 700 at 25.2 °C. pH 10.00 = 10.01 at 25.0 °C
Conductance Meter Used: CMS DIGITAL SN: 42420 14243
Standard 1000 umhos/cm at 25°, Reading 1000 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>108</u>	<u>0806</u>	<u>13.3</u>	<u>12.40</u>	<u>4320</u>	<u>clear.</u>
<u>120</u>	<u>0822</u>	<u>13.0</u>	<u>12.52</u>	<u>5590</u>	<u>cloudy w/ dissolved</u> <u>carbonate? , silt.</u>
Final					<u>DLW</u>

Remarks: Initial H₂O @ wellhead = 12.8 ppm ! 7/24/87 0745
Entered in 12.0 gallons.

(Purge Vol = 5.71 Sand Packed Vol.
+ 8.73 Casing/Anulus Vol.
14.04 gallons

Collected by DLW Signature DLW Date 7/24/87
Checked by DLW Signature DLW Date 7/24/87

WELL DEVELOPMENT DATA

Project RMA ON-POST Bore ERS3 D1 Well 23221
 Date(s) Developed 7/27/87 Project Number TASK 44
 Personnel (Name/Company) DLW/RE Date Installed 5/7/87
PER/RE
 Rig Used RE-WEEL SERVICE TRUCK Well Diameter (I.D.) 4 in.
 Pump (Type/Capacity) N/A Annulus Diameter 113 in. 0 ft. to 41 ft.
 Boiler (Type/Capacity) 3.88" X 2.0' 73 in. 41 ft. to 49 ft.
 Water Source RMA Screen Interval 433 ft. to 49 ft.
- ft. to - ft.
 Measured Well Depth TOC (Initial) 4520 ft. Casing Height (Above G.L.) 107 ft.
 (Final) - ft. Bottom of Screen (Below G.L.) 49 ft.
 Water Level TOC/Date/Time (Initial) 36.44 / 6-26-87 / 0856
 (after 24 hrs.) 36.6 9-28-87 / 1145
 Feet of Water in Well 12.76 ft. x .653 gallons/foot = 8.33 gallons casing/annulus volume
 Drilling Fluid Lost N/A gallons One Purge Volume 1402 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 70.2 gallons
 Added Water 0 gallons Total Purge Volume 176 gallons
 Casing/Annulus Volume 8.33 gallons Volume Measured By SCANN BARRETT
 Surge Technique BAILING
 Calibration: pH Meter Used: BECKMAN 421 SN: 015887
 pH 7.00 = 7.00 at 25.4 °C. pH 10.00 = 10.01 at 25.1 °C
 Conductance Meter Used: CMS DIGITAL SN: 14715
 Standard 1000 umhos/cm at 25°, Reading 1003 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 120	0814	13.0	12.64	4750	clear.
131	0824	12.7	12.84	5590	cloudy w/ dissolved materials, silt & some fine sand.
Final					

Remarks: Initial H₂O wellhead = 13.5 ppm
Well dewatered in 11 gallons.

1 Pump Vol. = 5.71 Sand Pack Vol.
+ 8.33 Casing/Annulus Vol.
14.04 Gallons

Collected by DLW 7/27/87
 Checked by DLW 12/1/87
 Signature _____ Date _____

WELL DEVELOPMENT DATA

Project RMA - ON-POST Bore BP 53 D1 Well 2224
 Date(s) Developed 7/28/87 Project Number TASK 44 DW
 Personnel (Name/Company) DW/SEE Date Installed 5/7/87
PJB/PSE Well Diameter (I.D.) 4 in.
 Rig Used EIE WELL SERVICE TRUCK Anulus Diameter 11 3/4 in. 0 ft. to 41 ft.
 Pump (Type/Capacity) N/A 7 1/2 in. 41 ft. to 49 ft.
 Bailer (Type/Capacity) 3.85" x 2.0' Screen Interval 43 3 ft. to 49 ft.
 Water Source RMA Casing Height (Above G.L.) 6.7 ft.
 Measured Well Depth TOC (Initial) 45.20 ft. Bottom of Screen (Below G.L.) 49 ft.
 (Final) _____ ft.
 Water Level TOC/Date/Time (Initial) 76.44 / 6-20-87 / 0856
 (after 24 hrs.) 34.6 9/28/87 1145
 Feet of Water in Well 12.26 ft. x 0.653 gallons/foot = 8.33 gallons casing/anulus volume
 Drilling Fluid Lost N/A gallons One Purge Volume 14.02 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 20.2 gallons
 Added Water 0 gallons Total Purge Volume 176 gallons
 Casing/Anulus Volume 8.33 gallons Volume Measured By 5 GALLON BUCKET
 Surge Technique DRILLING
 Calibration: pH Meter Used: Bushman # 21 SN: 015883
 pH 7.00 = 7.00 at 24.2 °C, pH 10.00 = 10.02 at 24.7 °C
 Conductance Meter Used: CMS DIGITAL
 Standard 1000 umhos/cm at 25°, Reading 1000 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>131</u>	<u>0807</u>	<u>12.5</u>	<u>12.62</u>	<u>4790</u>	<u>clear</u>
<u>153</u>	<u>0819</u>	<u>12.7</u>	<u>12.76</u>	<u>5040</u>	<u>cloudy w/ dissolved gray bentonite ? & fine sand</u>
Final					

Remarks: Initial flow & wellhead = 0.0 gpm DW hose wasn't working (See previous readings)
Well dewatered to 12 gallons.

1 Purge vol = 571 Sand pack vol.
+ 273 Casing/Anulus Vol.
1404 gallons

Collected by DW

Checked by DW

Signature DW Date 7/28/87
 Signature DW Date 10/1/87

WELL DEVELOPMENT DATA

Bore EP 53 D1 Well 23221

Project RNA - ON POST Project Number TASK 44 DW

Date(s) Developed 8/4/87 Date Installed 5/7/88 37

Personnel (Name/Company) DLW / ESE Well Diameter (I.D.) 4 in.

JEP / HLA Annulus Diameter 11 1/2 in. 0 ft. to 41 ft.

Rig Used ESE WELL SERVICE TRUCK Screen Interval 7 3/8 in. 41 ft. to 49 ft.

Pump (Type/Capacity) N/A Casing Height (Above G.L.) 43.3 ft. to 49 ft.

Bailer (Type/Capacity) 3.85" x 2.0' Bottom of Screen (Below G.L.) 1 ft. to 1 ft.

Water Source RNA Measured Well Depth TOC (Initial) 48.20 ft. (Final) 1.7 ft.

Water Level TOC/Date/Time (Initial) 36.44 / 6-26-87 / 0856

(after 24 hrs.) 36.6 4-28-87 1145

Feet of Water in Well 12.26 ft. x 0.653 gallons/foot = 8.33 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 14.02 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 70.2 gallons

Added Water 0 gallons Total Purge Volume 176 gallons

Casing/Annulus Volume 8.33 gallons Volume Measured By 5 gallon bucket

Surge Technique BAILING

Calibration: pH Meter Used: Beckman 421 SN: 015883

pH 7.00 = 7.01 at 20.7 °C, pH 10.00 = 10.04 at 20.4 °C

Conductance Meter Used: CMS DIGITAL SN

Standard 1000 umhos/cm at 25°, Reading 1001 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25 °C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>153</u>	<u>0711</u>	<u>12.7</u>	<u>12.53</u>	<u>4110</u>	<u>clear.</u>
<u>165</u>	<u>0722</u>	<u>12.5</u>	<u>12.67</u>	<u>4990</u>	<u>partly cloudy w/ some silt. some carbonate</u>
Final					

Remarks: Initial (1000) wellhead = 0.0 ppm

Well developed in 12 gallons.

Purge vol = 6.71 sand pack vol.
+ 8.33 casing vol.
14.04 gallons

Collected by [Signature] 3 4 87 Date

Checked by [Signature] 5/14/88 Date

WELL DEVELOPMENT DATA

Project RMA ON-POST Bore EP-52D1 Well 23221
Date(s) Developed 8/11/87 Project Number TASK 44
Personnel (Name/Company) DLW/ESE Date Installed 5/7/87
PJB/ESE Well Diameter (I.D.) 4 in.
Rig Used ESE WELL SERVICE TRUCK Anulus Diameter 11 3/8 in. 0 ft. to 41 ft.
Pump (Type/Capacity) N/A 2 1/2 in. 41 ft. to 49 ft.
Bailer (Type/Capacity) 305" X 2.0' Screen Interval 43.3 ft. to 49 ft.
Water Source RMA Casing Height (Above G.L.) 1.7 ft.
Measured Well Depth TOC (Initial) 49.20 ft. Bottom of Screen (Below G.L.) 49.0 ft.
(Final) 50.84 ft.
Water Level TOC/Date/Time (Initial) 36.44 / 6-26-87 / 0856
(after 24 hrs.) 36.6 / 09-2887 / 1145
Feet of Water in Well 1226 ft. x 0.653 gallons/foot = 8.33 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 14.02 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 70.2 gallons
Added Water 0 gallons Total Purge Volume 176 gallons
Casing/Anulus Volume 8.33 gallons Volume Measured By 5 GALLON BUCKET
Surge Technique BAILING
Calibration: pH Meter Used: BECKMAN 021 SN: 015883
pH 7.00 = 2.00 at 23.7 °C. pH 10.00 = 10.03 at 23.5 °C
Conductance Meter Used: CMS DIGITAL SN: 11341
Standard 1000 umhos/cm at 25°, Reading 1000 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 165	0856	12.6	12.53	3800	clear
FINAL 176	0908	12.6	12.70	5090	Cloudy w/ 14 gms Silt if dissolved substance Some black/grey formation Sand.

Remarks: Initial H₂O 12 well head = 1.0 ppm
Well Shattered in 11 gallons

1 Purge vol. = 5.71 and pack vol.
8.33 casing vol.
14.04 total

Collected by DLW Signature DLW Date 8/11/87
Checked by DLW Signature DLW Date 8/11/87

WELL CONSTRUCTION SUMMARY

Borehole EP 53-D2 Well EP 23222
 Project Name and Location RMA Project Number 744
 Drilling Company Boyles Bros. Driller R. Roach Rig Number _____
 Drilling Method(s) Rotary

Borehole Diameter 17 1/2" in. _____ cm. _____ ft. _____ cm. to 40' ft. _____ cm.
11 1/2" in. _____ cm. _____ ft. _____ cm. to 50' ft. _____ cm.
7 7/8" _____ ft. _____ cm. to 70.3

Size(s) and types of Bit(s) 17 1/2", 11 1/2", 7 7/8"
blade bits

Size and Type PVC 4" schedule 40

Total Borehole Depth 70.3 ft. _____ cm.

Depth to Bedrock 37 ft. _____ cm.

Depth to Water — ft. _____ cm.

Water Level Determined By —

Length Plain PVC (total) 60.99 ft. _____ cm.

Length of Screen 10.71 ft. _____ cm.

Total Length of Well Casing 71.7 ft. _____ cm.

PVC Stick Up 1.4 ft. _____ cm.

Depth to Bottom of Screen 70.3 ft. _____ cm.

Depth to Top of Screen 59.6 ft. _____ cm.

Depth to Top of Sand 57.6 ft. _____ cm.

Depth to Top of Bentonite 52.6 ft. _____ cm.

Sampling Method(s) NA

Date/Time Start Drilling 8:00 5/15/87

Date/Time Finish Drilling 9:30 5/15/87

Date/Time Start Completion 9:30 5/15/87

Date/Time Cement Protective Casing 12:00 5/15/87

Materials Used _____

Plain PVC 6 x 10', 1 x 5'

Slotted PVC 1 x 10'

Bentonite Pellets 1.5 buckets

Bentonite Granular 1.2 bags

Cement 12 bags

Sand 2 bags

Water added during completion none

Water added during drilling none

Total Gallons of water added 0

Drill Site Geologist C. M. Walker

Date 5/15/87

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 06-1987 2300 P. M. J. L.

Date/Time/Personnel Casing Painted 7/23/87

Date/Time/Personnel Numbers Painted 7/23/87

Materials Used 18 Bgs quick-crete Roll-Lawn Edging 1/2 Bg cement 1 Bg silica sand

Top of Protective Casing to Top of PVC 0.55 ft. _____ cm. COMMENT/NOTES

Top of Protective Casing to Weep Hole 1.24 ft. _____ cm.

Top of Protective Casing to Internal Mortar 1.10 ft. _____ cm.

Top of Protective Casing to Top of Cement Pad 1.45 ft. _____ cm.

Top of Protective Casing to Ground Level — ft. _____ cm.

Reviewed By _____ Date _____

Drill Site Geologist _____ Date _____

Well: 23222

Drill Site Geologist: _____
Reviewed By: _____

Date: _____
Date: _____

WELL DEVELOPMENT DATA

Project RMA ON-POST Bore EP5302 Well 23222
 Project Number T44
 Date(s) Developed 07/06/87 Date Installed 05/15/87
 Personnel (Name/Company) DLW/ESE
TOB/ESE
 Rig Used ESE well service truck
 Pump (Type/Capacity) N/A
 Bailer (Type/Capacity) 3.85" x 2'
 Water Source RMA
 Measured Well Depth TOC (Initial) 70.0 ft.
 (Final) _____ ft.
 Water Level TOC/Date/Time (Initial) 35.76/1105/07-06-87
 (after 24 hrs.) 35.83/9-25-87/1135
 Feet of Water in Well 34.24 ft. x 0.653 gallons/foot = 22.36 gallons casing/anulus volume
 Drilling Fluid Lost N/A gallons One Purge Volume 32.92 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 164.6 gallons
 Added Water 5 gallons Total Purge Volume _____ gallons
 Casing/Anulus Volume 22.36 gallons Volume Measured By 5 gallon bucket
 Surge Technique Bailer
 Calibration: pH Meter Used: Beckman 621 SN: 015883
 pH 7.00 = 6.99 at 28.0 °C, pH 10.00 = 9.98 at 28.2 °C
 Conductance Meter Used: CMS Digital SN: 14274
 Standard 1000 umhos/cm at 25°, Reading 1001 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 0	1123	13.3	12.00	1144:	mostly clear - very slightly cloudy w/ silt
32	1152	14.0	12.45	2800	very cloudy w/ gray particulate
33	1330	13.7	12.40	2880	mostly clear, some silt
39	1336	13.8	12.27	2110	very cloudy w/ gray particulate/silt
Final					DLW

Remarks: Initial HNU = 12.0 ppm ; deionized well @ 32 gallons ; 1st 1/2 hour recharge - deionized
 Recalculation: pH = 6.98 @ 32.1 °C / pH 7.00 / pH 10.00 = 9.95 @ 32.5 °C SN: 015883
 Cond. Reading = 1002 ; std = 1000 SN: 14274
 Sand Pack Volume: 12.4 ft sand pack x .852 gal/ft = 10.56 gal
 10.56 gal + 22.36 gal = 32.92 gal
 Collected by DLW Signature DLW Date 07/06/87
 Checked by DLW Signature _____ Date _____

WELL DEVELOPMENT DATA

Bore EP 53 D2 Well 23222

Project RNA ON-POST Project Number T44
 Date(s) Developed 07/07/87 Date Installed 5/15/87
 Personnel (Name/Company) DW/ESE Well Diameter (I.D.) _____ in.
DJB/ESE Anulus Diameter 17 1/2 in. 0 ft. to 4 ft.
ESE WELL SEWAGE TANK Screen Interval 11 1/2 in. 40 ft. to 5 ft.
 Pump (Type/Capacity) N/A 52.6 ft. to 72.3 ft.
 Bailer (Type/Capacity) 3.85" x 2' _____ ft. to _____ ft.
 Water Source RNA Casing Height (Above G.L.) 1.4 ft.
 Measured Well Depth TOC (Initial) 70.0 ft. Bottom of Screen (Below G.L.) 70.3 ft.
 (Final) _____ ft.
 Water Level TOC/Date/Time (Initial) 35.76 / 7-06-87 / 1105 (41.46 / 7-7-87 / 0746)
 (after 24 hrs.) 35.83 9-25-87 1135
 Feet of Water in Well 34.24 ft. x 0.53 gallons/foot = 22.36 gallons casing/anulus volume
 Drilling Fluid Lost N/A gallons One Purge Volume 32.92 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 164.60 gallons
 Added Water 0 gallons Total Purge Volume _____ gallons
 Casing/Anulus Volume 22.36 gallons Volume Measured By SOMAN BUNNET
 Surge Technique BAILER
 Calibration: pH Meter Used: BECKMAN 021 SN: 015883
 pH 7.00 = 7.02 at 18.3 °C, pH 10.00 = 10.08 at 18.1 °C
 Conductance Meter Used: CMS DIGITAL SN: 14274
 Standard 1000 umhos/cm at 25°, Reading 1001 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, and content, color)
Initial 40	7:57	12.8	12.43	2090	Cloudy Gray 8:17
66	8:22	13.0	12.53	2390	Muddy Gray / BLACK ... dirtlike?
Final					DW

Remarks: Initial: HNH @ wellhead = 0.3 ppm ; well developed @ 27 gallons

Sand Pack Vol: 12.4 Sand pack x 0.852 gal = 10.56 gal
10.56 gal + 22.36 casing anulus vol = Purge vol 32.92
 Collected by [Signature] Date 07-07-87
 Checked by 11 Signature _____ Date _____

WELL DEVELOPMENT DATA

Project RMA ON POST Bore EP 53 D2 Well 23222
Date(s) Developed 07-09-87 Project Number T44
Personnel (Name/Company) DLW/BSE Date Installed 05/15/87
PJB/BSE Well Diameter (I.D.) 4 in.
Rig Used ESE WELL SERVICE TRUCK Anulus Diameter 17 1/2 in. 0 ft. to 46 ft.
Pump (Type/Capacity) N/A 11 1/2 in. 46 ft. to 50 ft.
Bailer (Type/Capacity) 3.85" x 2' Screen Interval 59.6 ft. to 70.3 ft.
Water Source RMA Casing Height (Above G.L.) 1.4 ft.
Measured Well Depth TOC (Initial) 70.0 ft. Bottom of Screen (Below G.L.) 70.3 ft.
Water Level TOC/Date/Time (Initial) 35.76/7-06-87/1105 (after 24 hrs.) 35.33 4-25-77 11:35
Feet of Water in Well 34.24 ft. x 0.657 gallons/foot = 22.36 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 32.92 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 164.80 gallons
Added Water 0 gallons Total Purge Volume gallons
Casing/Anulus Volume 22.36 gallons Volume Measured By 5 GALLON BUCKET
Surge Technique BAILING
Calibration: pH Meter Used: BECKMAN 421 SN: 015883
pH 7.00 = 7.03 at 17.1 °C, pH 10.00 = 10.09 at 17.4 °C
Conductance Meter Used: CMS DIGITAL SN: 14243
Standard 1408 umhos/cm at 25°, Reading 1406 umhos/cm at 25° °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, and content, color)
Initial					
<u>06</u>	<u>0836</u>	<u>12.6</u>	<u>12.08</u>	<u>2530</u>	<u>mostly clear</u>
<u>99</u>	<u>0859</u>	<u>13.0</u>	<u>12.34</u>	<u>3090</u>	<u>cloudy w/ dissolved gray bentonite.</u>
Final					

Remarks: Initial HNU @ wellhead = 0.0 ppm. ; well rendered in 33 gallons (0859)

X 12 1/2 50 ft. to 70.3 ft.

Sand Pack Vol.

12.4 ft x .852 gal/ft = 10.56 gal

Collected by DLW 07/08/87 Date
Checked by Signature Date

WELL DEVELOPMENT DATA

Project RMA ON POST Bore EP 53 DL Well 23222
Date(s) Developed 7/13/87 Project Number T44
Personnel (Name/Company) DLW / ESE Date Installed 5/15/87
ABW / ESE Well Diameter (I.D.) 4 in.
Rig Used ESE WELL SERVICE TRUCK Anulus Diameter 17 1/2 in. 0 ft. to 40 ft.
Pump (Type/Capacity) N/A * 1 1/2 in. 40 ft. to 50 ft.
Bailer (Type/Capacity) 3 BS X 2' Screen Interval 57.6 ft. to 70.3 ft.
Water Source RMA Casing Height (Above G.L.) 1.4 ft.
Measured Well Depth TOC (Initial) 70.6 ft. Bottom of Screen (Below G.L.) 70.3 ft.
(Final) _____ ft.
Water Level TOC/Date/Time (Initial) 35.76 / 7-6-87 / 1105 (41.46 / 7-7-87 / 0746) (36.0 / 7-9-87 / 0824)
(after 24 hrs.) 35.87 9-25-87 1135
Feet of Water in Well 34.24 ft. x 0.653 gallons/foot = 22.36 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 32.92 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 164.60 gallons
Added Water 0 gallons Total Purge Volume _____ gallons
Casing/Anulus Volume 22.36 gallons Volume Measured By 5 GALLON BUCKET
Surge Technique BAILING
Calibration: pH Meter Used: BECKMAN DELTA SN: 015883
pH 7.00 = 7.04 at 14.7 °C, pH 10.00 = 10.12 at 15.2 °C
Conductance Meter Used: CMS DIGITAL SN: 14274
Standard 1403 umhos/cm at 25°, Reading 1407 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>99</u>	<u>0944</u>	<u>12.1</u>	<u>12.03</u>	<u>2390</u>	<u>clear</u>
<u>133</u>	<u>1019</u>	<u>12.7</u>	<u>12.05</u>	<u>2310</u>	<u>cloudy w/ gray silt.</u>
Final					

Remarks: Initial N/A G. well head = 0.0 ; Well dewatered in 34 gallons (1-2)
* 73" South to 70.3 ft.

Sand Purge Vol:

12.4 ft. x .652 gal/ft. = 10.56 gal.

10.56 + 22.36 = 32.92 = 1 purge vol.

Collected by DLW

Checked by ✓

Signature

Signature

Date

Date

WELL DEVELOPMENT DATA

Project RMA ON POST Bore EP 5302 Well 23222
Date(s) Developed 7/14/87 Project Number TASK 44
Personnel (Name/Company) DLW/ESE Date Installed 5/15/87
ABW/ESE Well Diameter (I.D.) 4 in.
Rig Used ESE WELL SERVICE TRUCK Annulus Diameter 17 1/2 in. 0 in. to 90 in.
Pump (Type/Capacity) N/A 11 1/2 in. 40 in. to 50 in.
Boiler (Type/Capacity) 3.85 x 2' Screen Interval 59.6 in. to 72.3 in.
Water Source RMA Casing Height (Above G.L.) 1.4 in.
Measured Well Depth TOC (Initial) 70.0 ft. Bottom of Screen (Below G.L.) 72.3 in.
(Final) ft.
Water Level TOC/Date/Time (Initial) 35.76/7-6-87/105 (41.46/7-7-87/0746) (36.0/7-9-87/0824)
34.24 (after 24 hrs.) 35.83 9-25-87 1135
Feet of Water in Well 72.76 ft. x 0.653 gallons/foot = 22.36 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 32.92 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 164.60 gallons
Added Water 0 gallons Total Purge Volume gallons
Casing/Annulus Volume 22.36 gallons Volume Measured By 5 GALLON BUCKET
Surge Technique SAILING
Calibration: pH Meter Used: BECKMAN 021 SN: 015883
pH 7.00 = 7.07 at 20.4 °C, pH 10.00 = 10.07 at 20.4 °C
Conductance Meter Used: CMS DIGITAL SN: 14274
Standard 1408 umhos/cm at 25°, Reading 1408 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
133	0929	12.6 °C	11.71	2220	clear.
167	10.07	13.1 °C	12.08	2810	CLOUDY w/ GREY SILT (same dissolved content)
Final					

Remarks: Initial HNU @ well head = 0.0 ppm (7-14-87, 0920)
Well re-washed at 34 GALS 7/14/87

1 Purge vol = 10.56 gal (Sand pack vol)
+ 22.76 gal (casing/annulus vol)
32.92 gal.

Collected by DLW 7/14/87
Signature DLW Date
Checked by DLW
Signature DLW Date

WELL DEVELOPMENT DATA

Bore EP 53 D2 Well 23222

Project TMA ON POST Project Number T+SK 44
 Date(s) Developed 7/20/87 Date Installed 5/15/87
 Personnel (Name/Company) DW/ESE Well Diameter (I.D.) 4 in.
ADW/ESE Anulus Diameter 17 1/2 in. 0 in. to 40 in.
ESE WELL SERVICE TRUCK * 11 1/2 in. 40 in. to 50 in.
 Pump (Type/Capacity) N/A Screen Interval 58.6 ft. to 70.3 ft.
 Bailer (Type/Capacity) 3.85" X 2.0' Casing Height (Above G.L.) 1.4 ft.
 Water Source RWA Bottom of Screen (Below G.L.) 70.3 ft.
 Measured Well Depth TOC (Initial) 70.0 ft.
 (Final) ft.
 Water Level TOC/Date/Time (Initial) 35.76/7-6-87/1105 (41.46/7-7-87/0746) (36.0/7-9-87/0824)
 (after 24 hrs.) 35.83 3-25-87 1135
 Feet of Water in Well 34.24 ft. x 0.653 gallons/foot = 22.36 gallons casing/anulus volume
 Drilling Fluid Lost N/A gallons One Purge Volume 32.92 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 164.60 gallons
 Added Water 0 gallons Total Purge Volume gallons
 Casing/Anulus Volume 22.36 gallons Volume Measured By 5 GALLON BUCKET
 Surge Technique TAILING

Calibration: pH Meter Used: RECKMAN 621 SN: 015883
 pH 7.00 = 7.00 at 26.1 °C, pH 10.00 = 10.00 at 26.5 °C
 Conductance Meter Used: CMS DIGITAL SN: 14243
 Standard 1000 umhos/cm at 25°, Reading 1002 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 167	11:33	13.0	11.76	1589	PARTIALLY CLEAR GREEN SLT
199	12:09	14.3°	12.02	953	CLOUDY W/ MUCH FINE GREEN SLT
Final					

Remarks: Well dewatered in 32 gallons (7/20/87, 1209)
Initial ANULUS well head = 0.0 mpm (7/20/87, 1115)

1 Purge vol = 10.56 gal (Sand pack vol) Collected by ADW 7-20-87
 + 22.36 gal (casing/anulus vol.) Checked by VV Signature ADW Date 7-20-87
32.92 gal Signature ADW Date 7-20-87

WELL DEVELOPMENT DATA

Bore EP 53D2 Well 23222
Project RMA ON POST Project Number THSK 44
Date(s) Developed 7/24/87 Date Installed 5/15/87
Personnel (Name/Company) DLW/ESE Well Diameter (I.D.) 4 in.
ABW/BSE Annulus Diameter 17 1/2 in. 0 ft. to 40 ft.
1 1/2 in. 40 ft. to 50 ft.
Rig Used ESE WELL SERVICE TRUCK Screen Interval 59.6 ft. to 70.3 ft.
Pump (Type/Capacity) N/A Casing Height (Above G.L.) 1.4 ft.
Bailer (Type/Capacity) 3.85" x 2.0' Bottom of Screen (Below G.L.) 70.3 ft.
Water Source RMA
Measured Well Depth TOC (Initial) 70.0 ft.
(Final) ft.
Water Level TOC/Date/Time (Initial) 35.76 / 7-6-87 / 1105
(after 24 hrs.) 35.76 / 7-6-87 / 1105 35.87 9:25:27 1135
Feet of Water in Well 34.24 ft. x 0.653 gallons/foot = 22.36 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 32.92 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 164.00 gallons
Added Water 0 gallons Total Purge Volume gallons
Casing/Annulus Volume 22.36 gallons Volume Measured By 5 GALLON BUCKET
Surge Technique BAILING
Calibration: pH Meter Used: DRUCKMAN 021 SNI 015383
pH 7.00 = 1.00 at 25.2 °C, pH 10.00 = 10.01 at 25.0 °C
Conductance Meter Used: CMS DIGITAL SNI 14243
Standard 1000 umhos/cm at 25°, Reading 1000 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 199	0920	12.8	11.67	1556	clear
237	1003	13.5 12.25	12.25	1978	CLOUDY W/ BROWN SILT AND SOME FORMATION SAND
Final					

Net de-aerated in 33 gallons.

Remarks: Initial HNU 2 wellhead = 203 ppm / 12.9 ppm
Water Level = 35.87 / 7-24-87 / 0912
7 3/8" 50' To 70.3'

1 Purge vol = 10.56 gal (Sand pore vol.)
+ 22.36 gal (Casing/annulus vol.)
32.92 gal.

Collected by DLW 7/24/87
Checked by

WELL DEVELOPMENT DATA

Bore EP-5372 Well 23222
 Project RMAH ON-POST Project Number TASK 44
 Date(s) Developed 7/27/87 Date Installed 5/7/87
 Personnel (Name/Company) DW/ESE Well Diameter (I.D.) 4 in.
POB/ESE Annulus Diameter 17 1/2 in. 0 ft. to 4 1/2 ft.
 Rig Used ESE WEL SERVICE TRUCK * 1 1/2 in. 40 ft. to 50 ft.
 Pump (Type/Capacity) GRANDFOS / 7 GPM Screen Interval 596 ft. to 703 ft.
 Bailer (Type/Capacity) N/A ft. to ft.
 Water Source RMAH Casing Height (Above G.L.) 1.4 ft.
 Measured Well Depth TOC (Initial) 700 ft. Bottom of Screen (Below G.L.) 70.3 ft.
 (Final) ft.
 Water Level TOC/Date/Time (Initial) 35.76 / 7-6-87/1105
 (after 24 hrs.) 35.83 9-25-87 1135
 Feet of Water in Well 34.34 ft. x 0.657 gallons/foot = 22.36 gallons casing/annulus volume
 Drilling Fluid Lost N/A gallons One Purge Volume 32.92 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 164.60 gallons
 Added Water 0 gallons Total Purge Volume _____ gallons
 Casing/Annulus Volume 22.36 gallons Volume Measured By 5 GALLON BUCKET
 Surge Technique RAISE / LOWER PUMP
 Calibration: pH Meter Used: BECKMAN 021 SN: 015882
 pH 7.00 = 7.00 at 25.4 °C, pH 10.00 = 10.01 at 25.1 °C
 Conductance Meter Used: CMS DIGITAL SN: 14243
 Standard 1000 umhos/cm at 25°, Reading 1003 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 232	0845	18.1	11.93	1769	dark sw mostly clear, some silt
264	0912	17.0	11.70	1560	cloudy w/ grey silt
Final					

Remarks: Initial H₂O @ well head = 28 ppm.

Well dewatered in 32 gallons.

* 7 1/2" 50' TO 70.3'

(Purge Vol = 10.56 gal (sand probe vol.)
 + 22.36 (casing annulus vol.)
32.92 gal

Collected by DW

7/27/87

Checked by DW

Signature

Date

Signature

Date

WELL DEVELOPMENT DATA

Bore EP-53 D2 Well 23222

Project RAID ON-POST Project Number TASK 44

Date(s) Developed 7/28/87 Date Installed 5/7/87

Personnel (Name/Company) DLW/ESE Well Diameter (I.D.) 4 in.

DSB/ESE Anulus Diameter 17 1/2 in. 0 ft. to 40 ft.

Rig Used ESE WELL SERVICE TRUCK * 1 1/2 in. 40 ft. to 50 ft.

Pump (Type/Capacity) N/A Screen Interval 51.6 ft. to 70.3 ft.

Bailer (Type/Capacity) 3.85" X 2.0' _____ ft. to _____ ft.

Water Source RNA Casing Height (Above G.L.) 14 ft.

Measured Well Depth TOC (Initial) 70.0 ft. Bottom of Screen (Below G.L.) 70.3 ft.

(Final) _____ ft.

Water Level TOC/Date/Time (Initial) 35.76/7-6-87/1105

(after 24 hrs.) 35.83 9-25-87 1135

Feet of Water in Well 34.24 ft. x 0.653 gallons/foot = 22.36 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 32.92 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 164.60 gallons

Added Water 0 gallons Total Purge Volume _____ gallons

Casing/Anulus Volume 22.36 0.653 DW gallons Volume Measured By 5 GALLON BUCKET SW

Surge Technique RAISE & LOWER PUMP BAILING

Calibration: pH Meter Used: TECKMAN 621 SN: 015383

pH 7.00 = 7.00 at 24.2 °C, pH 10.00 = 10.02 at 24.7 °C

Conductance Meter Used: CMS DIGITAL SN: 14243

Standard 1000 umhos/cm at 25°, Reading 1000 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial <u>264</u>	<u>0856</u>	<u>21</u>	<u>11.49</u>	<u>1462</u>	<u>Clear.</u>
<u>296</u>	<u>0926</u>	<u>13.5</u>	<u>12.07</u>	<u>1820</u>	<u>Cloudy Gray</u>
					<u>Silt</u>
Final					

Remarks: Initial HPL @ well head = .40 ppm Disintegrated in 32 gallons

* Final Anulus Dia. = 7 1/2" 50' TO 70.3'

1 Purge Vol = 10.56 sand pack vol.
+ 22.36 casing anulus vol.
32.92 gallons

Collected by DLW 7/28/87 Date

Checked by 11 Signature _____ Date _____

WELL DEVELOPMENT DATA

Bore SP-53 D2 Well 23222

Project ZNA ON-POST Project Number TASK 44

Date(s) Developed 8/4/87 Date Installed 5/7/87

Personnel (Name/Company) DLW/ESE Well Diameter (I.D.) 4 in.

JFP/HLA Annulus Diameter 17 1/2 in. 0 ft. to 40 ft.

Rig Used ESE WGR SERVICE TRUCK * 11 1/2 in. 40 ft. to 50 ft.

Pump (Type/Capacity) N/A Screen Interval 59.6 ft. to 70.3 ft.

Bailer (Type/Capacity) 3.85" x 20' _____ ft. to _____ ft.

Water Source RMD Casing Height (Above G.L.) 1.4 ft.

Measured Well Depth TOC (Initial) 70.0 ft. Bottom of Screen (Below G.L.) 70.3 ft.

(Final) _____ ft.

Water Level TOC/Date/Time (Initial) 35.76 / 7-6-87 / 1105

(after 24 hrs.) 35.83 9-25-87 1135

Feet of Water in Well 34.24 ft. x 0.657 gallons/foot = 22.36 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 32.92 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 164.60 gallons

Added Water 0 gallons Total Purge Volume _____ gallons

Casing/Annulus Volume 22.36 gallons Volume Measured By 5 GALLON BUCKET

Surge Technique BAILING

Calibration: pH Meter Used: BECKMAN 21 SN: 015883

pH 7.00 = 7.01 at 20.1 °C. pH 10.00 = 10.04 at 20.4 °C

Conductance Meter Used: CMS DIGITAL

Standard 1000 umhos/cm at 25°, Reading 1001 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>296</u>	<u>0750</u>	<u>12.3</u>	<u>11.60</u>	<u>1519</u>	<u>Mostly clear. Some silt & fine sand.</u>
<u>328</u>	<u>0829</u>	<u>12.5</u>	<u>12.03</u>	<u>1893</u>	<u>cloudy w/ dark gray silt, some fine sand.</u>
Final					

Remarks: Initial RMC @ wellhead = 140 gpm + 1/2 in. line pressure.

Well developed in 22 gallons

8" Ewell annulus dia. = 7.25" to 12.3"

1 Purge vol = 10.56 Sand free vol.
+ 27 = 2000 vol.
2.42 gal.

Collected by DLW/ESE 8/4/87 Signature _____ Date _____

Checked by _____ Signature _____ Date _____

WELL DEVELOPMENT DATA

Bore EO-52 D2 Well 23222

Project RMA ON-POST Project Number TASK 44

Date(s) Developed 3/11/87 Date Installed 5/7/87

Personnel (Name/Company) DLW/ESE Well Diameter (I.D.) 4 in.

PJB/ESE Anulus Diameter 17 1/2 in. 0 ft. to 40 ft.

Rig Used ESE WELL SERVICE TRUCK Screen Interval 1 1/2 in. 40 ft. to 50 ft.

Pump (Type/Capacity) N/A Screen Interval 59.6 ft. to 70.3 ft.

Bailer (Type/Capacity) 3.85" x 2.0' Casing Height (Above G.L.) 1.4 ft.

Water Source RMA Bottom of Screen (Below G.L.) 70.3 ft.

Measured Well Depth TOC (Initial) 70.0 ft.
(Final) 71.8 ft.

Water Level TOC/Date/Time (Initial) 35.76 / 7-6-87 / 1105
(after 24 hrs.) #2W 35.83 / 09-25-87 / 11:35

Feet of Water in Well 34.24 ft. x 0.653 gallons/foot = 22.36 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 32.92 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 164.60 gallons

Added Water 0 gallons Total Purge Volume 360 gallons

Casing/Anulus Volume 22.36 gallons Volume Measured By 5 gallon bucket

Surge Technique BAILING

Calibration: pH Meter Used: B/E Chemtron #21 SN: 015383

pH 7.00 = 7.00 at 23.7 °C, pH 10.00 = 10.03 at 23.5 °C

Conductance Meter Used: CMS DIGITAL SN: 11341

Standard 1000 umhos/cm at 25°, Reading 1000 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 320	0750	12.6	11.69	1592	Clear
360	0833	13.2	11.92	1854	cloudy w/ gray silt & varying formation sand
Final					

Remarks: Initial RMA @ wellhead = 8.0 ppm - up to 25 ppm - 0.0 M breaking zone.
* Final anulus dia = 7 1/2" to 10.3"

Purge vol. = 10.56 sand prod. vol.
+ 22.36 casing vol.
32.92 gallons

Collected by DLW 3/11/87 (Date)

Checked by DLW (Signature) (Date)

EP-56

BOREHOLE SUMMARY LOG

Borehole EP-56 Well 26153
Project Name and Location BMA Sect 26 M.W. Tunnel Project Number T44
Drilling Company Boyles Bros Driller B. Roach Rig Number Faaling 1500
Drilling Method(s) 12 1/4" Auger, rotary

Size(s) and type(s) of bit(s) 12 1/4" Auger 3 7/8" bit cone
Borehole Diameter 12 1/4 in. 0 ft. 42.5 ft. 150 ft.
3 7/8 in. 42.5 ft. 150 ft.

Sampling Methods cont. core

Total Number Soil Sampling Tubes -

Total Number Core Boxes 9

Number of Gallons Lost Drilling Fluid -

Date/Time Started Drilling 10/7/87 0805

Date/Time Completed Drilling 10/8/87 0821

Total Borehole Depth 150' ft. - cm.

Depth to Bedrock 42.5' ft. - cm.

Depth to Water - ft. - cm.

Water Level Determined By? -

Borehole Completed as Monitoring Well? No

Date/Time Grouting Completed 10/8/87 0958

Depth of Tremmie Pipe 150'

Gallons of Grout 145

Materials Used 10 bags of cement, 100 gal H₂O, 1 bag of bentonite

Comments grouted to ground surface

Wellsite Geologist Steve Pans Date 10/21/87

Checked for Grout Settlement on 10/20/87 by Steve Pans

Amount of Grout Added 10 gal

All Measurements from Ground Level

Reviewed by [Signature] Date 10/21/87

Drill Site Geologist [Signature] Date 3/12/88

Borehole: EP-56

Well Number: _____

SOILS LOG						Description
Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	
MUNSELL COLORS						
0			NA		ML	Sandy-silt, ~ 20% v.f.gr. sand, 10YR, 3/4, dk. ywsh. brown, non-plus., loose, dry, alluvium.
1	0-2'	0.9'		0-2'		
2						
3	2-4'	1.0'		2-4'		
4						
5	4-6'	2'		4-6'		At 2.0', sandy-silt, ~ 20% v.f.gr. sand, color changes to 10YR, 5/4-6, ywsh brown, non-plus., loose, dry, alluvium.
6						At 5.0', sandy-silt, % sand increases to ~40% v.f.gr. sand, 10YR, 5/4-6, ywsh. brn, non-plus., loose, dry, alluvium.

Drill Site Geologist: [Signature]

Date: 7/8/87

Reviewed By: [Signature]

Date: 10/1/87

Borehole: LP-56 Well Number: _____

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
						MUNSELL COLORS
6			NA		ML	
7	6-8'	1.75'		6-8'		
8						At 8.0', clayey-silts, ~ 5% clay, 10 YR, 7/3, v. pale brown, non-pls., med. dense, dry, alluvium
9	8-10'	2'		8-10'		
10						At 10', clayey-silts, % clay increases to ~ 20%, 10 YR, 5/3-4, brown, slightly pls., v. stiff, v. slight moist, alluvium.
11	10-12'	1.85'		10-12'		
12						

Drill Site Geologist: A.E. Dutta Date: 9/5/85

Reviewed By: [Signature] Date: 11/1/87

Borehole: EP-56

Well Number: _____

Depth - feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
						MUNSELL COLORS
12 12.3			NA		ML	At 12.3', Clayey - fine sands, ~ 5% clay, 10 YR, 5/3-4, brown, non-plas, loose - med. dense, v. slight moist, alluvium.
13	12-14'	1.85'		12-14'		
14						
15	14-16'	2'		14-16'		At 15', clayey - fine sands, ~ 25% - 30% clay, 10 YR, 5/3, brown, mottled w/ 1 st calcareous sands, 10 YR, 8/1, white, slight plas, hard, v. slight moist, alluvium.
16						
17	16-18'	2'		16-18'		
17.2					SM	poorly graded sand - silt mixture, ~ 30-40% silt, med - coarse gr sands, 10 YR 5/3-4, brown non-plas, loose, dry, alluvium.
18						

423

Drill Site Geologist: A.E. Smith

Date: 9/5/87

Reviewed By: John Smith

Date: 11/12/87

Borehole: EP - 56 Well Number: _____

Depth - feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
18			NA			MUNSELL Colors
19	18-20'	0'		18-20'		<p>No RECOVERY</p> <p>AUGER LOSS</p> <p>SEVERAL ATTEMPTS MADE USING SAMPLER PROBES OF DIFFERENT INNER DIAMETERS</p> <p>↓</p>
20	20-22'	0'		20-22'		
21	22-24'	0'		22-24'		
22						
23						
24			7			

Drill Site Geologist: [Signature] Date: 3/8/99
Reviewed By: [Signature] Date: 4/15/99

Borehole: KP-56

Well Number:

Depth - feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
						MUNSELL Colors
24			NA		SP	gravelly-sands, ~ 30-40% ptz. & feldspar gravel, fine-coarse gr sands, 10 YR, 5/4-6, ywash. brn, non-plas., loose, v. slightly moist, alluvium.
25	24-26'	1.0'		24-26'		
26						At 26', gravelly-sands, ~ 30-40% gravel (1-2" size) fine-coarse sands, 10 YR, 5/4-6, ywash brn, non-plas., loose, v. slightly moist, alluvium.
27	26-28'	1.0'		26-28'		
28						At 28', gravelly-sands, ~ 20-30% gravel (1/4"-1/2" size) fine-coarse gr sands, 10 YR, 5/4-6, ywash brn, non-plas., loose, v. slightly moist, alluvium.
29	28-30'	1.15'		28-30'		
30			7		7	

Drill Site Geologist: A. E. Dittus

Date: 9/15/85

Reviewed By: [Signature]

Date: 10/1/85

Borehole: EP-56

Well Number: _____

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
						Munsell Colors
30			NA		GC	Poorly graded gravel - sand - clay mixture, ~ 50% gravel (1/4 - 3/8" dia.), ~ 20% clay, 30% med - coarse gr. sand, 10 YR, 5/4-6, yellow brown, non-plas, loose, slightly moist, alluvium.
31	30-32'	0.75'		30-32'		
32					SP	Gravelly - sands, ~ 30-40% gravel (1/4 - 1/2" dia.), med - coarse gr. sands, 10 YR, 5/4-6, yellow brown, non-plas, loose, slightly moist, alluvium.
33	32-34'	0.95'		32-34'		
34						
35	34-36'	1.0'		34-36'		
36						

Drill Site Geologist: [Signature]

Date: 9/8/83

Reviewed By: [Signature]

Date: 9/8/83

Borehole: EP-56

Well Number: _____

SOILS LOG						Description
Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	
36			NA		SP	MUNSELL Colors
37	36-38'	0.95'		36-38'		
38						
39	38-40'	0'		38-40'		
40						
41	40-42'	1.6'		40-42'		<p>No Recovery</p> <p>Soil Loss</p> <p>At 40', gravelly-sands, % gravel decreases to 10-20%, 10 YR 5/4-6, yellow brown, non-plas., loose, slightly moist, calcareous.</p>
42						

Drill Site Geologist: A. C. [Signature]

Date: 11/15/15

Reviewed By: [Signature]

Date: 11/15/15

Borehole: EP-56

Well Number: _____

SOILS LOG
Description

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	
42			NA		SP	At 42', gravelly-sands, ~40% gravel, 10 VR 5/4-6 wash. brown, non-plas., loose, slightly moist, alluvium.
42.5	42 - 44'			42 - 44'		
43		2'			CL	silty-claystone, ~5-10% silt, 54, 4/3-4, olive, slightly plas., med-stiff-stiff, slightly moist, bedrock
44						END OF BORING LOG
45						
46						
47						
48						

Drill Site Geologist: J. E. Guter

Date: 11/1/81

Reviewed By: J. E. Guter

Date: 11/1/81

BOX NO.	DEPTH Feet Int.	Weather U S	Structure/ Bedding		Hard- ness S	Perm.		Mineralogy		Color M G	Texture/ Grain Size clst ad gr mm 0.01 0.1 1 10 100	Lith. Char.	Lith. Class Fr	Description/Comments CM (Scale 1" = <u>2</u> ft)
			Angle	Desc.		1"	2"	Min	Mobil					
														Bedrock at 42.5' Casing set to 43.5' Beginning at 41'
														See Annual Log for 43.5'
	44 $3\frac{1}{4}$			massive ↓				15% mica		54 1t olive brown		30% dilt	SS	SANDSTONE, very fine grained to med. fine grained
	46			thinly banded with acc sand filled w/ie 20°				FeOx conch on fracture		54 61 W. olive gray		20% dilt	CS	CLAYSTONE
	48 $2\frac{3}{5}$													
	50			massive ↓										
	51 $1\frac{1}{2}$									10% dark orange				51.5' oxidation boundary
	52									N310 Dark gray		20% dilt		
	54 $1\frac{1}{5}$													
	56													
	58 $1\frac{1}{2}$			finely bedded								30% dilt		finely interbedded with siltstone
	60 $1\frac{1}{5}$													Note: Poor recovery from 57 to 62' - cuttings indicated claystone interbedded with lignite

ESE, Inc. BORE EP-56 WELL(S)

BOX #	DEPTH Feet	Reel In.	U	S	Structure/ Bedding		Hard- ness	Perm.		Mineralogy		Color	Texture/ Grain Size clst or gr mm .01 LO 100	Lith. Char.	Lith. Class	Description/Comments
					Angle	Desc.		1°	2°	Min	Habit					
	60															
①	60.5															
	62															
	64	1.7 2.75 5														
	66					sh. shale						N 3/4 dark gray				
	68					massive w/ clay filling				100% inacc		N 2/4 dark gray		can 60% rich		
	70	1.7 5				massive										
②	72															
	74					interbedded laminar				100% can						
	76	2.5 5				massive						N 2/4 grayish black				
	78															
③	80	3.2 5														
	82															

ESE, Inc. BORE EP-56 WELL(S)

BOX NO.	DEPTH Feet	Roc. Int.	Structure/ Bedding		Hard- ness	Perm.		Mineralogy		Color	Texture/ Grain Size stat ed gr mm	Lith. Char.	Lith. Class	Description/Comments	
			Angle	Desc.		1"	2"	Min	Habit						M
			U S		S	H L	H L	H			01 10 100		FI	CM (Scale 1" = 2 ft)	
	80			massive						N 3/0 Dark gray			CS	CLAUSTONE	
	82			massive						N 3/0 Dark gray					
	84														
	86									N 1/2 0 grayish black					
③	88														
	90									N 1/3 0 dark gray		1500 oil c			
	92														
	94									50 411 DR. greenish gray					
	96									50 P oil greenish gray		96.2'	St	Siltstone	
④	98			fractured calcite filled massive									99.1'	CS	CLAUSTONE
	100									N 1/2 0 grayish black				Reviewed By _____ Date _____	

ESE, Inc. BORE EP-56 WELL(S)

BOX NO.	DEPTH	REG. INT.	Structure/Bedding		Hardness	Perm.		Mineralogy		Color	Texture/Grain Size (list ed gr mm)	Lith. Char.	Lith. Class	Description/Comments
			Angle	Desc.		1"	2"	Min.	Habit					
	100			Massive						N2/0 grayish black			CS	claystone
	102	3.5/4												
④	104									N3/0 Dark gray		10% silt		
	106	1.4/3												
⑤	108			Fine bedded						N5/0 Med gray				
	110	4.7/5		Irregular bedded						N13/0 Dark gray		20% Sand, 60% claystone	SS	SANDSTONE, med grained, friable
	112			Shaly bedded									CS	claystone
	114	11.3/2		Massive						N4/0 Med dark gray				
⑤	116	0.5/2												
	118			20' fract oil sh										
	120	5/5		30'						5Y 2/1 brownish black		10% silt		

BOX #	DEPTH L.F.T.H.	Rss %	U	S	Structure/ Bedding		Hard- ness	Perm.		Mineralogy		Color M	Texture/ Grain Size slst ad gr mm .01 10 100	Lith. Char.	Lith. Class	Description/Comments
					Angle	Desc.		1°	2°	Min	Habit					
	120	4 1/2				finely bedded				5% con		N 5/0 med gray			SS	CLAYSTONE SANDSTONE fine grained friable
	122					massive						N 4/0 med dark gray			CS	CLAYSTONE
	124	4 1/2				irregular bedding (deformed)						N 5/0 med lt gray			ST	SILTSTONE intubbed with claystone
⑥	126					finely bedded				10% con		N 4/0 med dark gray			SS	SANDSTONE, fine grained, finely bedded with con rich lenses, along bedding plane, weakly cemented to ab. friable
	128	1 1/2				irregular bedding (deformed)									ST	SILTSTONE intubbed w. th claystone
	130					massive										CLAYSTONE
	132					massive				85% con 10% clay 5% silt		N 5/0 med gray			SS	SANDSTONE, medium grained, friable
	134	3 1/2												10% claystone 20% silt	CS	CLAYSTONE
⑦	136	2 1/2										N 3/0 dark gray				



Frontier Logging
Lakewood, Colorado

ESE

EP-56

RMA

ADAMS COUNTY

COLORADO

Ground Level

Ground Level

Operator
Wm. Linton

Location
Lakewood

Date
OCT. 8, 1987

Depth
149 Ft

3 7/8"

Core
43 Ft PVC

native mud

Unit
110

Location
Lakewood

COMPRESS 84-75

146 1/2 Ft

Natural Gamma
200 Scale = 20

2

Core Source Ref/Date

Probe Diameter
103-104H 1 5/8"

Factor
2.38 x 10⁻⁵

7

3 7/8"

Resistance
40 ohms/5"

S.P.
100 MV/Inch

S.P.

-100 MV

NATURAL GAMMA

20

Initial Log

RESISTANCE

40

OHMS/5 inches

S.P.

NATURAL GAMMA

20 CPS

100 MV

RESISTANCE

40

OHMS / 5 inches

Survey Depth

True Vertical

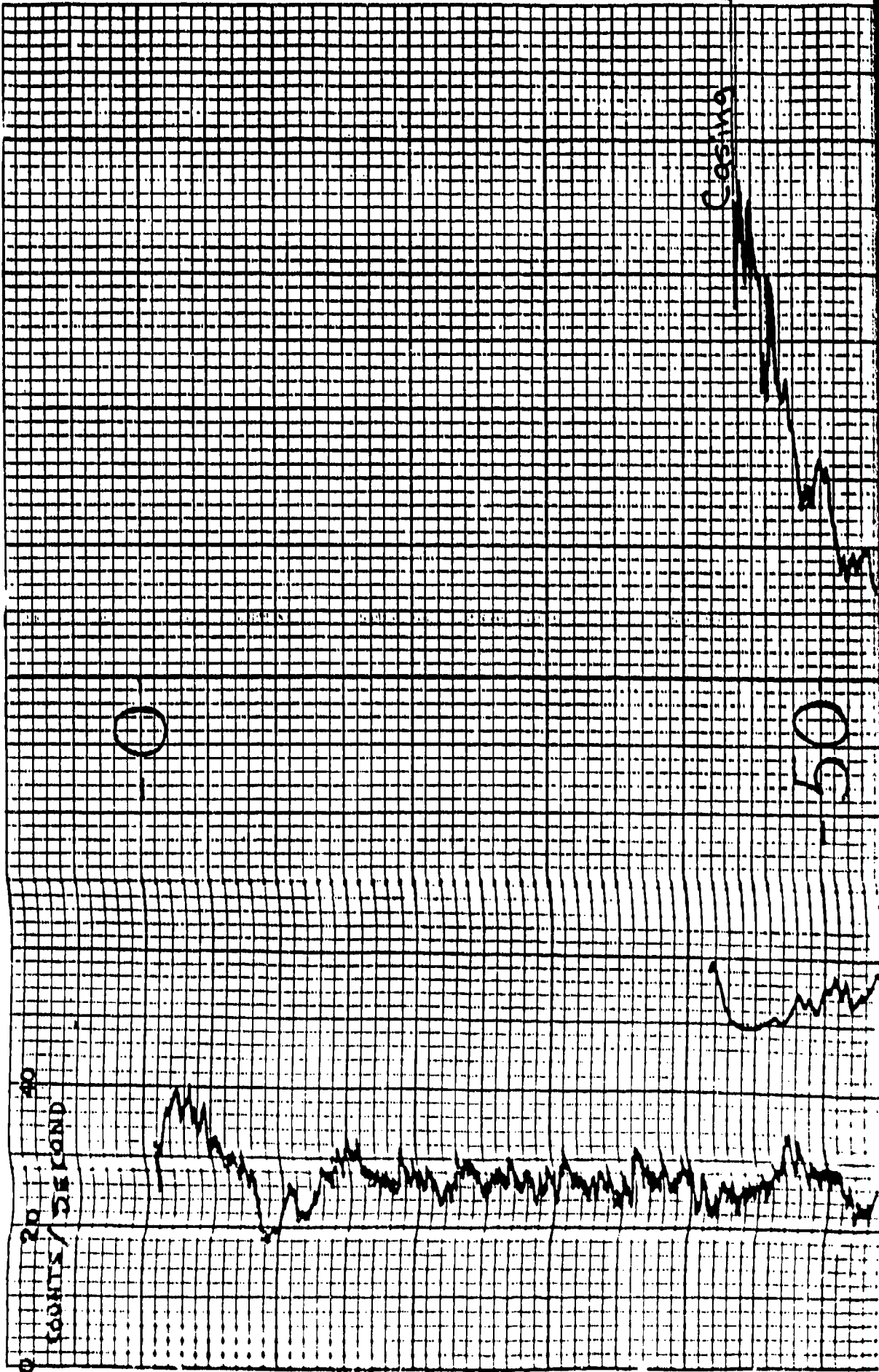
COUNTS / SECOND

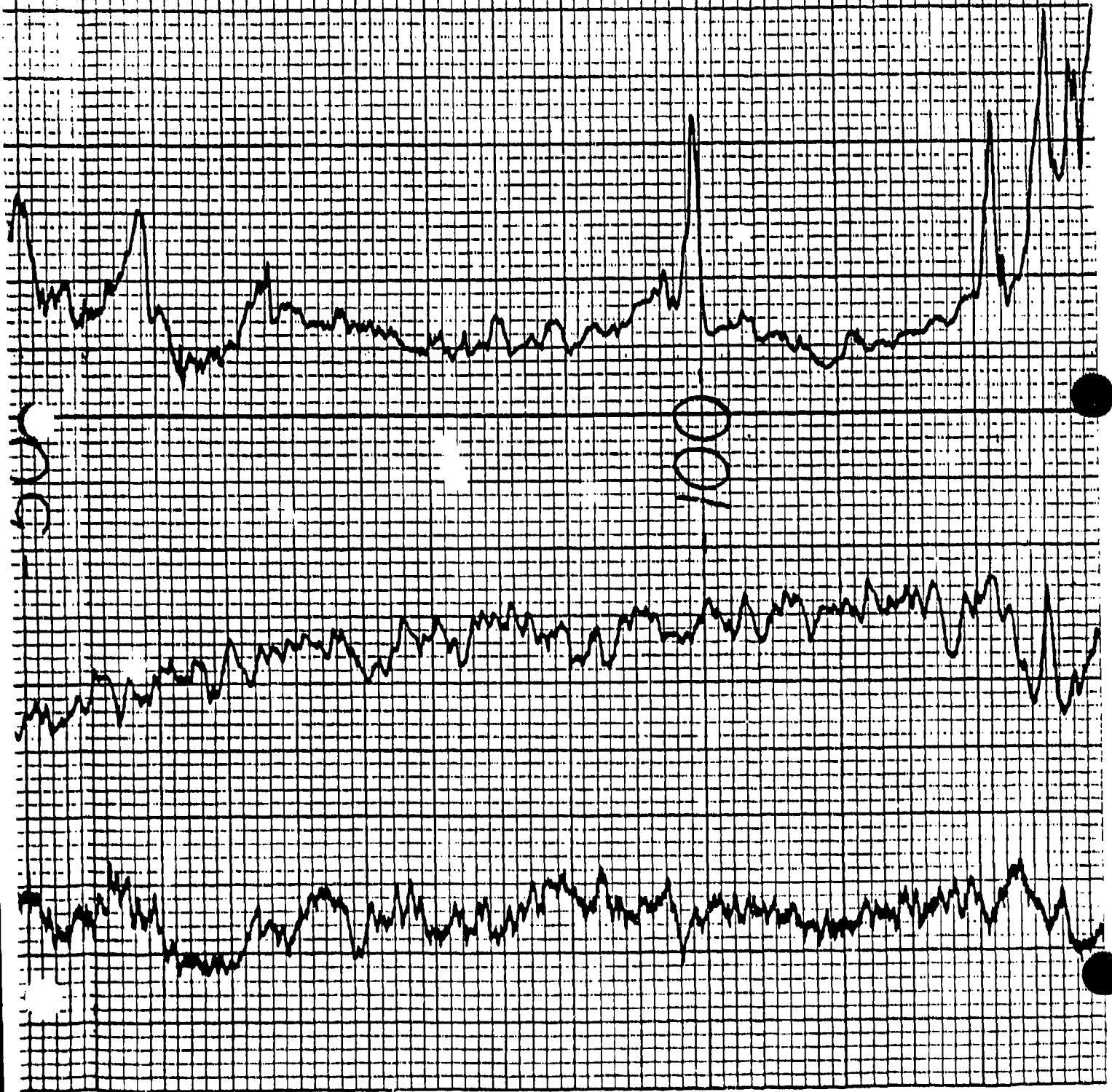
40

20

Casing

50



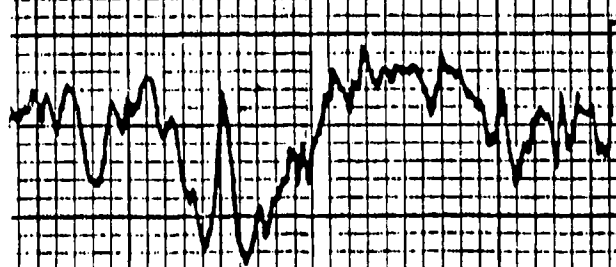




COUNTS PER SECOND
40
20
0

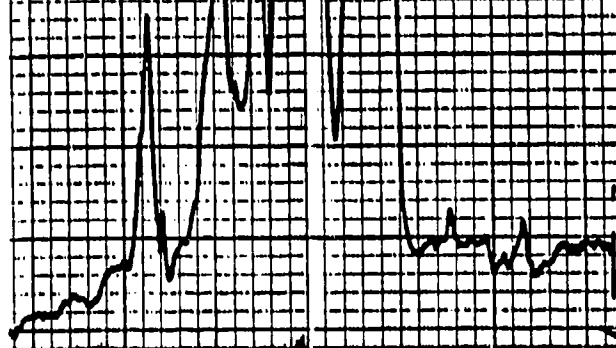
NATURAL

GAMMA



S.P.

100 MV/INCH



RESISTANCE

40 OHMS/5 INCHES

EP-56

WELL CONSTRUCTION SUMMARY

Borehole ER-56-DT-D2^{SP} Well 26153
Project Name and Location RNA TASK 19/SECT 26 Project Number 744
Drilling Company BOYLES BROTHERS Driller DON IRWIN Rig Number IR
Drilling Method(s) 11 3/4" ROTARY, 7 3/8" ROTARY

Borehole Diameter 11 3/4 in. _____ cm. _____ ft. _____ cm. to 50 ft. _____ cm.
7 3/8 in. _____ cm. _____ ft. _____ cm. to 138 ft. _____ cm.

Size(s) and types of Bit(s) 11 3/4" GUIDE BIT
7 3/8" GUIDE BIT

Size and Type PVC 4" SCHEDULE 40

Total Borehole Depth 138.0 ft. _____ cm.

Depth to Bedrock 42.5 ft. _____ cm.

Depth to Water _____ ft. _____ cm.

Water Level Determined By _____

Length Plain PVC (total) 132.8 ft. _____ cm.

Length of Screen 5.65 ft. _____ cm.

Total Length of Well Casing 138.45 ft. _____ cm.

PVC Stick Up 1.70 ft. _____ cm.

Depth to Bottom of Screen 136.75 ft. _____ cm.

Depth to Top of Screen 131.10 ft. _____ cm.

Depth to Top of Sand 126.4 ft. _____ cm.

Depth to Top of Bentonite 121 ft. _____ cm.

Drill Site Geologist [Signature]

Sampling Method(s) NOT SAMPLED

Date/Time Start Drilling 11-4-87/0830

Date/Time Finish Drilling 11-10-87/0945

Date/Time Start Completion 11/6/87 1006

Date/Time Cement Protective Casing 11-4-87 1835

Materials Used 50' (9") STEEL CASING

Plain PVC 132.8' 26153

Slotted PVC 5.65 SLOTTED

Bentonite Pellets 1 2/3 BUCKETS

Bentonite Granular 2 BAGS

Cement 14 BAGS + 9 BAGS

Sand 2 BAGS

Water added during completion _____

Water added during drilling _____

Total Gallons of water added 6

Date 11/10/87

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed CEMENT PAD 11/14/87/1730/DON IRWIN

Date/Time/Personnel Casing Painted INTERNAL MORTAR 11-10-87/1400/DON IRWIN

Date/Time/Personnel Numbers Painted 2/12/88/1530/DON IRWIN

Materials Used 12 BAGS CEMENT

Top of Protective Casing to Top of PVC 0.50 ft. _____ cm.

Top of Protective Casing to Weep Hole 1.45 ft. _____ cm.

Top of Protective Casing to Internal Mortar 1.54 ft. _____ cm.

Top of Protective Casing to Top of Cement Pad 1.73 ft. _____ cm.

Top of Protective Casing to Ground Level 2.65 ft. _____ cm.

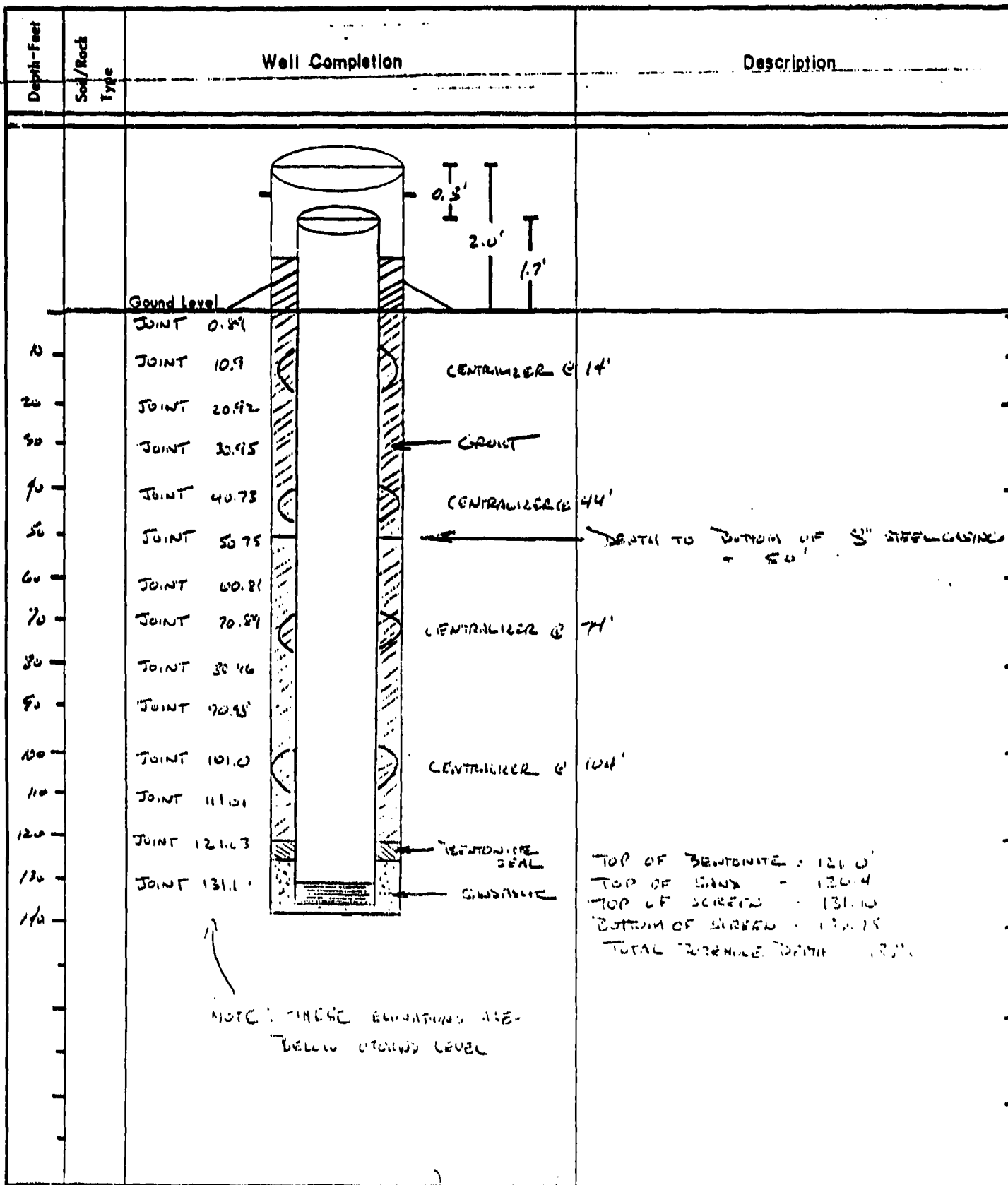
Reviewed By [Signature] Date 3/5/88

Drill Site Geologist [Signature] Date 12/01/87

COMMENT/NOTES

Borehole: EP-56 D^{SP}2

Well: 26153



Drill Site Geologist: [Signature]

Reviewed By: [Signature]

Date: 11/17

Date: 11/18

WELL DEVELOPMENT DATA

Bore EP-56 D¹³ 02 Well 26153

Project Task 19/sec. 26 Project Number TASK 19 44

Date(s) Developed 12/7/87 Date Installed 11/6/87

Personnel (Name/Company) Uhl + Vassar / FSE-INTV Well Diameter (I.D.) 4" In.

Cindy Gelsky / FSE CMG Annulus Diameter 11 3/4 In. 0 ft. to 50 ft.

Rig Used Well Service Truck 77 1/2 In. 50 ft. to 134 ft.

Pump (Type/Capacity) Ground FDS 10-15 gal. 70 PSI Screen Interval 134.12 ft. to 136.25 ft.

Bailer (Type/Capacity) N/A ft. to ft.

Water Source RMA Casing Height (Above G.L.) 1.70 ft.

Measured Well Depth TOE PVC (Initial) 138.50 ft. Bottom of Screen (Below G.L.) ft.

(Final) 138.6 ft.

Water Level TOC/Date/Time (Initial) 49.81 / 12/7/87 / 1054

(after 24 hrs.) 53.01 / 3-14-88 / 1205

Feet of Water in Well 89.89 ft. x 2.653 gallons/foot = 58.04 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons * One Purge Volume 134.00 67.0 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 67.0 334.0 gallons

Added Water 0 gallons Total Purge Volume gallons

Casing/Annulus Volume 45.27 58.00 gallons Volume Measured By 5 gallon bucket

Surge Technique RAISE / LOWER NMP.

Calibration: pH Meter Used: Beckman *015583 SN

pH 7.00 = 7.04 at 14.6 °C, pH 10.00 = 10.07 at 14.3 °C

Conductance Meter Used: YSI

Standard 1413 umhos/cm at 25°, Reading 1410 umhos/cm at 25 °C

PD Background 0.0 Reading 0.0

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 0 gall	1127	15.8	10.05	2090	very silty brown/grey
Final					

Remarks: _____

Sample height:

136.75
- 126.4
= 10.35 ft x 252 =
2608.80

1 Purge vol:
58.3 gal (casing vol.)
+ 134.0 gal (annulus vol.)
= 192.3 gal

Collected by WV - A. J. Ar 12-7-87

Checked by [Signature] 3-12-87

Signature Date

WELL DEVELOPMENT DATA

Bore EP-56 D12 Well 26153

Project RM4 ON POST Project Number Task 17-44
Date(s) Developed 12-15-87 Date Installed 11/6/87
Personnel (Name/Company) WTV / ESE Well Diameter (I.D.) 4 in.
LFNL / ESE Annulus Diameter 11 3/4 in. 0 ft. to 50 ft.
7 1/2 in. 50 ft. to 128 ft.
Rig Used Well Service - Truck Screen Interval 121.0 ft. to 136.75 ft.
Pump (Type/Capacity) N/A Casing Height (Above G.L.) 1.70 ft.
Bailer (Type/Capacity) 3.35" x 1.5' Bottom of Screen (Below G.L.) 136.75 ft.
Water Source RM4
Measured Well Depth TOC (Initial) 138.7 ft.
(Final) 138.6 ft.
Water Level TOC/Date/Time (Initial) 49.31 / 12/7/87 / 1054
(after 24 hrs.) 83.11 / 3-14-88 / 1205
Feet of Water in Well 85.85 ft. x 0.053 gallons/foot = 53.01 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 6 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 3.35 gallons
Added Water 1 gallons Total Purge Volume 6 gallons
Casing/Annulus Volume 58.01 gallons Volume Measured By 5 GALLON BUCKET
Surge Technique BAILING
Calibration: pH Meter Used: Beckman # 11 215553
pH 7.00 = 7.11 at 1.5 °C, pH 10.00 = 10.3 at 1.5 °C
Conductance Meter Used: YSI Model # 32
Standard 1415 umhos/cm at 25°, Reading 654 umhos/cm at 12.1 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 20	0939	10.5	11.73	3110	Clarity, Grayish ex. sediment
40	1016	11.0	11.62	3010	"
50	1054	11.5	11.04	3030	"
60	1133	11.0	10.82	3020	"
70	1206	11.2	10.54	3010	"
80	1241	11.3	10.25	3010	"
90	1310	11.5	9.90	3050	Dark grey uneven silty

Remarks: CUR

Collected by Walt Vassan 12-15-87
Signature (Date)
Checked by W.C. 1 3-18-88
Signature (Date)

WELL DEVELOPMENT DATA

Project ROAD IMPROV Bore EP-SG 02 Well 26153
 Date(s) Developed 02/02/88 Project Number TRK 1444
 Personnel (Name/Company) TECH/ESE Date Installed 11/06/87
TDH/ESE Well Diameter (I.D.) 4 in.
 Rlg Used ESE WELL SERVICE TRUCK Annulus Diameter 11 3/4 in. 0 ft. to 50 ft.
 Pump (Type/Capacity) GRINDERS/70PM 7 3/4 in. 50 ft. to 135 ft.
 Bailer (Type/Capacity) N/A Screen Interval 131.10 ft. to 136.75 ft.
 Water Source REA Casing Height (Above G.L.) 1.7 ft.
 Measured Well Depth TOC (Initial) 138.7 ft. Bottom of Screen (Below G.L.) 136.75 ft.
 (Final) 138.6 ft.
 Water Level TOC/Date/Time (Initial) 49.81 / 12-7-87 / 1054
 (after 24 hrs.) 83.11 / 3-14-88 / 1205
 Feet of Water in Well 88.89 ft. x 0.653 gallons/foot = 58.04 gallons casing/annulus volume
 Drilling Fluid Lost N/A gallons * One Purge Volume 67 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 335 gallons
 Added Water 0 gallons Total Purge Volume gallons
 Casing/Annulus Volume 58.04 gallons Volume Measured By ES gallon barrel
 Surge Technique Purge / lower pump.
 Calibration: pH Meter Used: BECKMAN 021 SN: C15885
 pH 7.00 = 7.10 at 2.1 °C, pH 10.00 = 10.28 at 2.1 °C
 Conductance Meter Used: YSI MODEL 31 SN: 2603 ESE #2
 Standard 1413 umhos/cm at 25°, Reading 1415 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>95</u>	<u>1323</u>	<u>11.6</u>	<u>8.73</u>	<u>3100</u>	<u>clearly w/ grey silt.</u>
<u>125</u>	<u>1338</u>	<u>11.9</u>	<u>8.66</u>	<u>3110</u>	<u>cloudy w/ grey silt.</u>
<u>140</u>	<u>1419</u>	<u>7.1</u>	<u>8.64</u>	<u>3130</u>	<u>cloudy w/ some grey silt</u>
Final					

Remarks: Leathered in 45 gallons Sanitization: 136.75 Red. of screen
Water level = 49.43 126.40 Top of sand
Initial pump rate = 2 GPM, 0.35 GPM @ 40 gallons 10.35 ft x .352 gal/ft = 3.62 gal.
Flow @ 100' = 0.0 ppm. (Pump off @ 140 gallons.)
1/Purge vol: 58.04 casing vol. Collected by 02/02/88
+ 9.22 sand pack vol. Checked by
66.86 ≈ 67 gal. water level greater than 100' @ 15000.

WELL DEVELOPMENT DATA

Project Bore EP56 D2 Well 26153
RMA ONPOST TR 44 Project Number 06956 TASK 19
 Date(s) Developed 02/12/88 Date Installed 11/06/87
 Personnel (Name/Company) WEST/POLLMAN: ESE Well Diameter (I.D.) 4" PVC in.
 Anulus Diameter 11 3/4 in. 0 ft. to 50 ft.
7 7/8 in. 50 ft. to 138 ft.
 Rig Used ESE WELL SERVICE TRUCK Screen Interval 131.10 ft. to 136.75 ft.
 Pump (Type/Capacity) GEOTECH / BLADDER PUMP Casing Height (Above G.L.) 1.7 ft.
 Bailer (Type/Capacity) N/A Bottom of Screen (Below G.L.) 136.75 ft.
 Water Source RMA
 Measured Well Depth TOC (Initial) 138.7 ft.
 (Final) 138.6 ft.
 Water Level TOC/Date/Time (Initial) 49.81 / 12-7-87 / 1054
 (after 24 hrs.) 83.11 / 3-14-88 / 1705
 Feet of Water in Well 88.89 ft. x 0.653 gallons/foot = 58.04 gallons casing/anulus volume
 Drilling Fluid Lost N/A gallons One Purge Volume 67 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 335 gallons
 Added Water 0 gallons Total Purge Volume 53 gallon barrels gallons
 Casing/Anulus Volume 58.04 gallons Volume Measured By ✓
 Surge Technique RAISE / LOWER PUMP
 Calibration: pH Meter Used: BECKMAN 021 SN: 015883
 pH 7.00 = 7.04 at 13.3 °C. pH 10.00 = 10.14 at 13.3 °C
 Conductance Meter Used: YSI MODEL 32 SN: 2603
 Standard 1413 umhos/cm at 25°. Reading 1413 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 140 gal		13.4	8.77	3190	CLOUDY GREY w/ SOME U.F. SAND SOME NOISES
156 gal		13.4	8.63	3200	TRANSLUCENT GREY w/ SILENT, SOME U.F. SAND
160	1448	13.2	8.45	3220	ALMOST CLEAR SOME FINE SAND
170	1511	13.0	8.43	3230	CLEAR COLORLESS NO SAND
180	1536	13.3	8.50	3200	COLORLESS 34. CLOUDY SOME FINE SAND
195	16:13	12.8	8.48	3190	CLEAR, COLORLESS

Remarks: FW: 58.45 = Water level (TOC)
Purge rate w/ Geotech = 0.34 gpm @ 15 gallons.
1 Purge vol: 58.04 casing vol + 282 sand pack vol.
66.86 ⇒ 67 gallons.
 Collected by 14/11/88 2/12/88
 Checked by 14/11/88 3-12-88
 Signature _____ Date _____
 Signature _____ Date _____

WELL DEVELOPMENT DATA

Project ZMA ON-POST Bore EP-5672 Well 26153
 Date(s) Developed 3/4/88 Project Number TSC-14
 Personnel (Name/Company) DLW/ESE Date Installed 11/26/87
RR/ESE Well Diameter (I.D.) 4 in.
 Rig Used ESE WELL SERVICE-TRUCK Annulus Diameter 11 3/4 in. 0 ft. to 50 ft.
 Pump (Type/Capacity) GRUNDFOS / 50 PM 7 1/2 in. 50 ft. to 138 ft.
 Bailer (Type/Capacity) N/A Screen Interval 13.10 ft. to 36.75 ft.
 Water Source RMA Casing Height (Above G.L.) 1.7 ft.
 Measured Well Depth TOC (Initial) 138.7 ft. Bottom of Screen (Below G.L.) 36.75 ft.
 (Final) 138.6 ft.
 Water Level TOC/Date/Time (Initial) 49.81 / 12-7-87 / 1054
 (after 24 hrs.) 83.11 / 3-14-88 / 1205
 Feet of Water in Well 88.89 ft. x .653 gallons/foot = 58.04 gallons casing/annulus volume
 Drilling Fluid Lost N/A gallons * One Purge Volume 67 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 335 gallons
 Added Water 0 gallons Total Purge Volume gallons
 Casing/Annulus Volume 58.04 gallons Volume Measured By SS G. L. W. B. C.
 Surge Technique Prime / Lower Pump
 Calibration: pH Meter Used: Beckman pH 110 / ORION SA 280 SN: 1004
 pH 7.00 = 7.05 / 7.00 at 12.5 / 11.2 °C. pH 10.00 = 10.10 / 10.00 at 11.5 / 12.0 °C
 Conductance Meter Used: TSE Model 12 SN: 4002
 Standard 1413 umhos/cm at 25°, Reading 1411 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, and content, color)
Initial 198	0918	12.5	8.49	3250	cloudy w/ gray silt
(15) 213	0924	12.5	8.19	3110	slightly cloudy
(30) 228	0935	12.3	8.24	3220	clear
(45) 243	0944	12.6	8.05	3110	cloudy w/ gray silt
256	0954	11.2	8.71	3230	cloudy w/ gray silt
Final 267	1004	8.6	8.65	3220	partly cloudy w/ gray silt

Remarks: Well developed in SS, purged initially / 2 min
Water level = 52.07 1114 Pump on / 0950 Pump off / 1007 Pump on / 1012 Pump off - no more water w/ 17 min. discharge
Tip reading = 11.5 ppm (m) ORION used
Bottom of well not reached correctly
 * 1 Purge vol. SS (1 casing vol.)
 + 3.32 (ground rock vol.)
66.86 → 67 gallons
 Collected by DLW 1/4/88
 Checked by RR 1/3/88

WELL DEVELOPMENT DATA

Bore EP 56 D2 Well 26153
Project RMA on-Past Project Number Task 19-44
Date(s) Developed 3-9-88 Date Installed 11-6-88
Personnel (Name/Company) RR/ESE RW/ESE Well Diameter (I.D.) 4 in.
Anulus Diameter 11 3/4 in. 0 ft. to 50 ft.
7 7/8 in. 50 ft. to 138 ft.
Screen Interval 136.10 ft. to 136.75 ft.
Casing Height (Above G.L.) 1.7 ft.
Bottom of Screen (Below G.L.) 136.75 ft.
Rig Used ESE Well Service Truck
Pump (Type/Capacity) Grundfos 5-GPM
Bailer (Type/Capacity) N/A
Water Source RMA
Measured Well Depth TOC (Initial) 138.7 ft.
(Final) 138.6 ft.
Water Level TOC/Date/Time (Initial) 49.81 / 12-7-87 / 1054
(after 24 hrs.) 83.11 / 3-14-88 / 1205
Feet of Water in Well 88.89 ft. x 653 gallons/foot = 58.04 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons * One Purge Volume 67 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 33.5 gallons
Added Water 0 gallons Total Purge Volume 287 gallons
Casing/Anulus Volume 58.04 gallons Volume Measured By 55 Gallon Drum
Surge Technique lets lower pump
Calibration: pH Meter Used: Beckman 31 pH meter
pH 7.00 = 7.02 at 18.5 °C. pH 10.00 = 10.08 at 18.3 °C
Conductance Meter Used: YST Model 32 SN 2603
Standard 1413 umhos/cm at 25°, Reading 1413 umhos/cm at 18.2 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial <u>257</u>	<u>1305</u>	<u>15.5</u>	<u>8.92</u>	<u>3260</u>	<u>cloudy, Grey w/</u> <u>silt & fine yellow sand</u>
(15) <u>272</u>	<u>1317</u>	<u>15.5</u>	<u>8.56</u>	<u>3310</u>	<u>cloudy, Grey w/</u> <u>fine sand</u>
(30) <u>Final</u> <u>287</u>	<u>1333</u>	<u>15.8</u>	<u>8.83</u>	<u>3250</u>	<u>cloudy, Grey w/</u> <u>fine yellow sand</u>
Final					<u>(N/A)</u>

Remarks: Water level 81.36 Twp. (reading = 100 ft. from top of casing) pH 8.27
Well de-watered on 3-14-88.

1 1 large vol. 58.04 (casing vol)
2 282 (one purged)
3 58.04

Collected by B. J. Winters Signature B. J. Winters Date 3-14-88
Checked by [Signature] Signature [Signature] Date 3-14-88

EP-62

BOREHOLE SUMMARY LOG

Borehole EP-62 Well 34011
Project Name and Location BMA Section 24 M.W. Installation Project Number T44
Drilling Company Boyle Bros. Driller B. Rensch Rig Number Falling 560
Drilling Method(s) continuous core

Size(s) and type(s) of bit(s) 3 7/8" tri-cone, 12 1/4" Auger
Borehole Diameter 12 1/4" in. cm. 0 ft. cm. to 61.25 ft. cm.
3 7/8" in. cm. 61.25 ft. cm. to 150.0 ft. cm.

Sampling Methods core

Total Number Soil Sampling Tubes -

Total Number Core Boxes 8

Number of Gallons Lost Drilling Fluid -

Date/Time Started Drilling 8/17/87 1257

Date/Time Completed Drilling 8/19/87 0720

Total Borehole Depth 150 ft. cm.

Depth to Bedrock 60.5 ft. cm.

Depth to Water - ft. cm.

Water Level Determined By? -

Borehole Completed as Monitoring Well? No

Date/Time Grouting Completed 8/19/87 0905

Depth of Tremmie Pipe 145

Gallons of Grout 130 gal

Materials Used 9 bags of cement, 90 gal of H₂O, 1 bucket bentonite

Comments grouted to ground surface

Wellsite Geologist Steve Davis Date 9/16/87

Checked for Grout Settlement on 9/16/87 by Steve Davis

Amount of Grout Added none needed

All Measurements from Ground Level

Reviewed by [Signature] Date 3/17/88

Drill Site Geologist [Signature] Date 3/8/88

WELL CONSTRUCTION SUMMARY

Borehole EP-62 D1 Well 34011
Project Name and Location Sect. 34 Project Number TY4 / 081
Drilling Company Boyle Bros Driller Tom Larkin Rig Number 12
Drilling Method(s) _____

Borehole Diameter 12 1/8 in. _____ cm. 0 ft. _____ cm. to 65 ft. _____ cm.
7 7/8 in. _____ cm. 65 ft. _____ cm. to 103.5 ft. _____ cm.

Size(s) and types of Bit(s) 12 1/8" Blade Bit
7 7/8" Blade Bit

Size and Type PVC 4" Sch 40

Total Borehole Depth 103.5 ft. _____ cm.

Depth to Bedrock 60.5 ft. _____ cm.

Depth to Water _____ ft. _____ cm.

Water Level Determined By _____

Length Plain PVC (total) 93.35 ft. _____ cm.

Length of Screen 10 ft. _____ cm.

Total Length of Well Casing 104.2 ft. _____ cm.

PVC Stick Up 1.7 ft. _____ cm.

Depth to Bottom of Screen 102 ft. _____ cm.

Depth to Top of Screen 92 ft. _____ cm.

Depth to Top of Sand 87 ft. _____ cm.

Depth to Top of Bentonite 82 ft. _____ cm.

Sampling Method(s) Previously Cond

Date/Time Start Drilling 10/1/87 0805

Date/Time Finish Drilling 10/6/87 1358

Date/Time Start Completion 10/6/87 1410

Date/Time Cement Protective Casing 10/7/87 1105

Materials Used _____

Plain PVC 93.35'

Slotted PVC 10.85'

Bentonite Pellets 3 buckets (150 lb)

Bentonite Granular 2 bags (100 lb)

Cement 1 1/2 bags (90 lb) 9 bags (810 lb)

Sand Colo. Silica (40-20) 3.5 bags (350 lb)

Water added during completion B

Water added during drilling 4

Total Gallons of water added 4

Drill Site Geologist A. J. Ostello

Date 10/7/87

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed Cement Pad - 10/8/87 DLW & JRM

Date/Time/Personnel Casing Painted 10/9/87 1330 DLW & SMP

Date/Time/Personnel Numbers Painted 10/9/87 1415 DLW & SMP

Materials Used 20 Bags Saccate

Top of Protective Casing to Top of PVC 0.3 ft. _____ cm.

Top of Protective Casing to Weep Hole 1.6 ft. _____ cm.

Top of Protective Casing to Internal Mortar 1.75 ft. _____ cm.

Top of Protective Casing to Top of Cement Pad 1.82 ft. _____ cm.

Top of Protective Casing to Ground Level 2.1 ft. _____ cm.

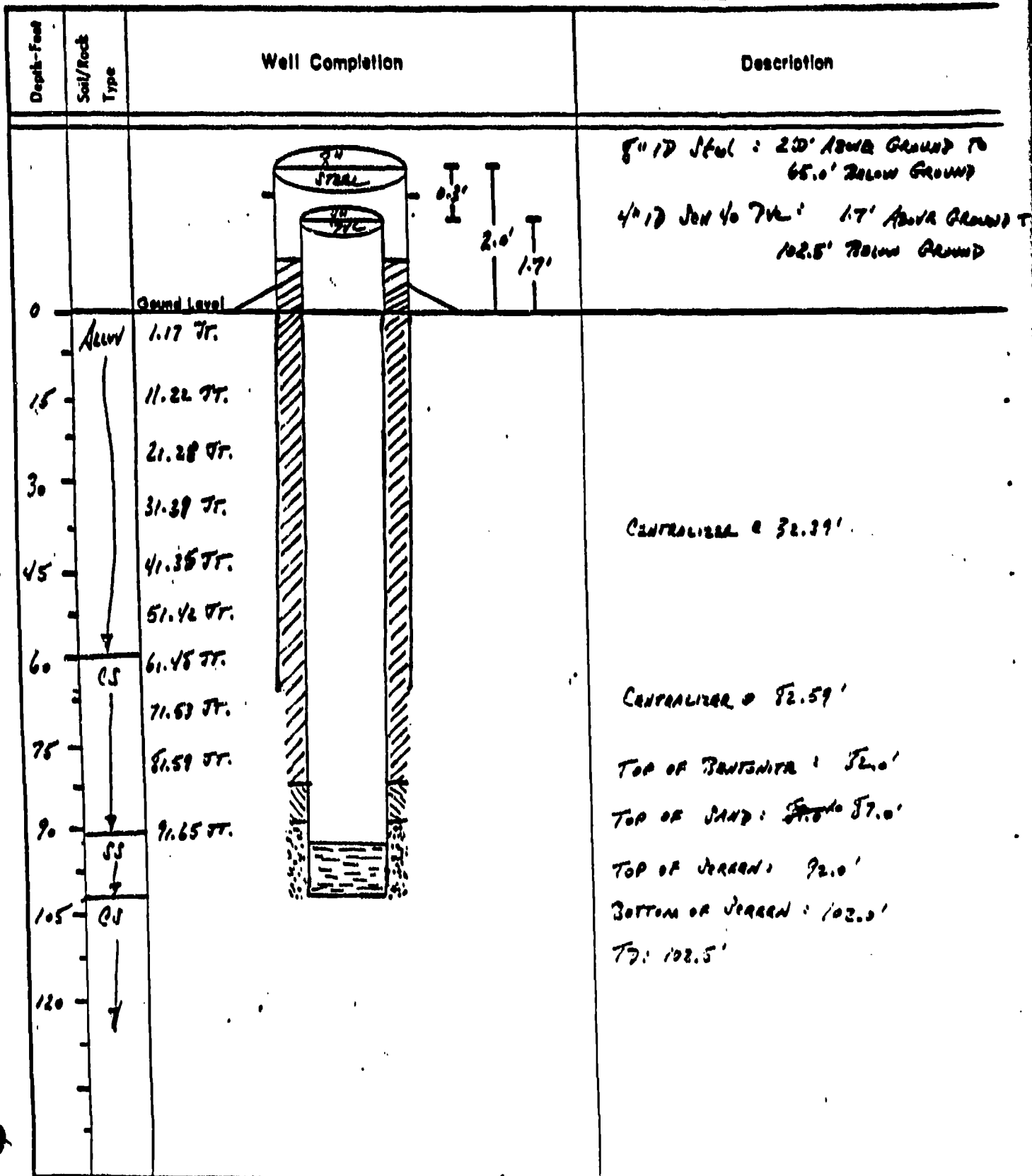
COMMENT/NOTES

Reviewed By _____ Date 10/11/87

Drill Site Geologist _____ Date _____

Borehole: EP-6271

Well: 34011



Drill Site Geologist: A. E. Santillo
 Reviewed By: [Signature]

Date: 10/7/87
 Date: 10/7/87

Borehole: EP-62

Well Number: _____

Depth - feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
1	1	0-2.0' $\frac{1.9}{2.0}$	SAME AS TUBE NUMBER	SAME AS TUBE INTERVAL	SM	Silty sand, 30% silt, fine to medium grained sand, 10YR 5/3, brown, dry, loose to medium dense, non plastic
2					SC	clayey sand, 35% clay, fine to coarse grained sand, 10YR 3/3, dark brown dry, med dense, low plastic
3	2	2.0-4.0' $\frac{1.9}{2.0}$			SM	Silty sand, 20% silt, fine to coarse grained sand, 10YR 5/4 yellowish brown, medium dense, dry, non plastic
4						
5	3	4.0-6.0' $\frac{2.0}{2.0}$			SC	clayey sand, 40% clay, fine to coarse grained sand, 10YR 5/4 yellowish brow, med dense dry, low plastic, calcareous
6						clayey P ↓ ↓ ↓ clay content increase to approx 50%
7		6.0-8.0' $\frac{1.95}{2.0}$			SM	Silty sand, 20% silt, fine to coarse grained sand, 10YR 5/4 yellowish brown, dense, dry, non plastic, very calcareous
8						↓ ↓ ↓
9	5	8.0-10.0' $\frac{1.9}{2.0}$				↓ ↓ ↓
10						↓ ↓ ↓

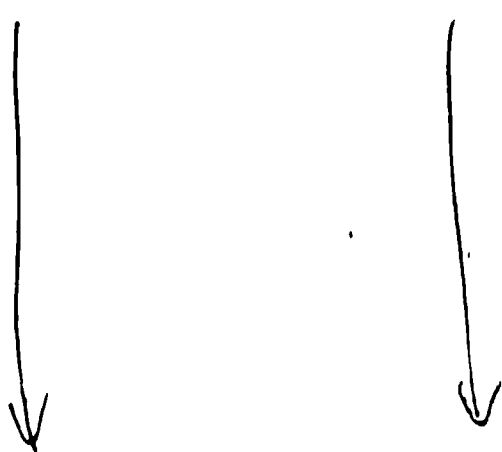
Drill Site Geologist: Angelo Ortolli Signed: Angelo Ortolli Date: 8/21/87

Reviewed By: _____

Date: _____

Borehole: EP-62

Well Number: _____

SOILS LOG					
Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification Description
11-6	10.0'-12.0'	1.95 2.0	SAME AS TUBE NUMBER	SAME AS TUBE INTERVAL	ML Silt, 20% fine grained sand, 10YR 7/3, Very pale brown, dense, dry, low plastic
12					SM Silty sand, 15% silt, 10YR 5/4, yellowish brown, dense, dry, ^{sl. moist} non plastic, calcareous
13-7	12.0'-14.0'	1.4 2.0			SC clayey sand, 35% clay, fine to coarse grained sand, 10YR 5/6, yellowish brown, dense, sl. moist, low plastic, calcareous
14					
15-8	14.0'-16.0'	1.5 2.0			
16			SAME AS TUBE NUMBER	SAME AS TUBE INTERVAL	
17-9	16.0'-18.0'	1.9 2.0			
18					
19-10	18.0'-20.0'	1.9 2.0			
20					SM Silty sand, 15% silt, fine to coarse grained sand, 10YR 6/4 light yellowish brown, dense, light moist, non plastic, calcareous

Drill Site Geologist: Angelo Ortel by Jim Parham

8/21/82

Reviewed By: _____

Date: _____

Borehole: EP-62

Well Number: _____

Depth - feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
21	11	20.0' - 22.0' 2.0'			Sm	Silty Sand (see pg 2)
22						
23	12	21.0' - 24.0' 2.0'				
24						
25	13	24.0' - 26.0' 2.0'				
26						
27	14	26.0' - 28.0' 2.0'			SC	CLAYEY SAND, 40% clay, fine to v. coarse grained sand, 10YR 5/4 yellowish brown, moist, dense, low plastic, calcareous
28						
29	15	28.0' - 30.0' 2.0'				- SAND increases to 75%
30						

Drill Site Geologist: Angelo Orrelli logged in John P. Orrelli Date: 7/21/87

Reviewed By: _____ Date: _____

Borehole: EP-62

Well Number: _____

SOILS LOG
Description

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	Description
30					CL	Clay, 30% sand, coarse grained, 10YR 5/4, yellowish brown, moist, stiff, very calcareous
31	16	30.0' - 32.0'	19	2.0'		
32					SC	Clayey SAND, 30% clay, fine to v. coarse sand, 10YR 5/4, yellowish brown moist, med. dense, low plastic
33	17	32.0' - 34.0'	19	2.0'	SM	Silty SAND, 15% silt, 10YR 6/6, brownish yellow, light moist, medium dense, non plastic
34						↓ ↓ ↓
35	18	34.0' - 36.0'	11	2.0'		
36					SP	Poorly graded SAND, fine to v. coarse grained 10YR 6/4 light yellowish brown, light moist, medium dense, non plastic
37	19	36.0' - 38.0'	20	2.0'		- grains increase in size to include small gravel
38					SC	Clayey SAND, 30% clay, 10YR 5/4 yellowish brown moist, medium dense, low plastic, fine to coarse grain sand
39	20	38.0' - 40.0'	2.0'	2.0'		
40					SM	Silty SAND, 20% silt, fine to coarse grain sand, occ. v. coarse sand and small gravel, 10YR 5/4 yellowish brown moist, med. dense, non plastic

SAME AS tube number
same as tube interval

Drill Site Geologist: Angelo Orrelli 10/14/87 HPK

Date: 8/21/87

Reviewed By: _____

Date: _____

Borehole: EP-67

Well Number: _____

Depth-Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
41-41	50.0'-42.0'	2.0'	SAME AS TUBE NUMBER	SAME AS TUBE INTERVAL	SM	Silty SAND (see pg. 4)
42-42	42.0'-44.0'	2.0'			CI	Clay, 20% silt, 10% sand, fine coarse grained sand, 10YR 4/4 dark yellowish brown, moist, dense, medium plastic
43-43		2.0'			SM	Silty SAND, 35% silt, fine to medium grained sand, 10YR 5/4, yellowish brown, moist, dense, low plastic
44-44	44.0'-46.0'	2.0'			CLAY SP, fine to coarse sand, fine to medium gravel	↓
45-45		2.0'				
46-46	46.0'-48.0'	2.0'				
47-47		2.0'			GP	Poorly graded gravel, fine to coarse grained gravel, occasional cobble, 35% sand, fine to coarse grained sand, dense, moist
48-48	48.0'-50.0'	2.0'				↓
49-49						↓
50-50						↓

Drill Site Geologist: Angelo Arletti

Date: _____

Reviewed By: _____

Date: _____

Borehole: EP-62

Well Number: _____

SOILS LOG					
Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification Description
					6P Gravel (see pg 5)
51-26	26 50.0' - 52.0'	2.0'			CL Clay, 40% sand, 5% gravel, fine to coarse grained sand, fine gravels, 10PR 5/3 brown, stiff, moist, medium plastic.
52	27 52.0' - 53.0'	1.0'			
53	28 53.0' - 54.0'	1.0'			
54	29 54.0' - 56.0'	2.0'			SM Silty Sand, 40% silt, fine to coarse grained sand, 10PR 5/3 brown, dense, moist, medium plastic.
55	30 56.0' - 58.0'	2.0'			51.5' silt decreases to 15%, nonplastic, sand grain size decreases to fine to medium grained, 5% mica
56					
57	31 58.0' - 59.0'	1.0'			6P Poorly Graded Gravels, fine gravels, 30% sand, fine to very coarse grained sand, 10PR 4/1, dark grey, moist, dense
58					
59	32 59.0' - 60.0'	1.0'			- gravel size increase to coarse
60					- cobbles on top of bedrock
61	32 60.0' - 61.25'	1.25'			Claystone bedrock, SP 5/2 Olive grey Total Depth 61.25'

Drill Site Geologist: Angelo Ortelli logged by Paul

Date: 8/21/87

Reviewed By: _____

Date: _____

[illegible]

[illegible]

DEPTH Feet	Roc. Int.	U S	Structure/ Bedding		Hard- ness	Perm.		Mineralogy		Color		Texture/ Grain Size clst or gr mm	Lith. Char.	Lith. Class	Description/Comments Scale 1" = 1 ft
			Angle	Desc.		1°	2°	Min.	Habit	M	G				
90				massive											claystone
91	5/5														
92				finely bedded						2.5R	b/o			SS	SANDSTONE well cemented
93				35% 350						2.5R	4/0		50% dark grey		
94	5/5												15% lithic clasts		
95													40% lithic clasts		
96				finely bedded									20% cbn grey		
97				massive											Lithic conglomerate (clastic clasts) sand matrix
98	38/5			cut to fine joint											SAND
99										2.5R	4/0		75% 30% cbn grey	SS	SANDSTONE 50% lithic (clastic) clasts (1")
100													2.5R		

BOX NO.	DEPTH Feet	U	S	Structure / Bedding		Hard- ness	Perm.		Mineralogy		Color	Texture / Grain Size class. of gr. mm	Lith. Char.	Lith. Class	Description / Comments
				Angle	Desc.		1°	2°	Min.	Major					
											M G	.01 1.0 100			CM (Scale 1" = 2' 1")
2	101				thickly bedded										SANDSTONE
	101														- fine grained ss
	102				finely bedded										
	102				medium						2.5Y 4/6 dark gray		2.5Y 4/6 dark gray	CS	CLAYSTONE
	103				clay fill joint										glossy in fresh weather
	104														
	105														
4	106														
	107														
	108				clay fill joint										
	109														silt increases
															20% silt

BOX NO.	DEPTH Feet	U S	Structure/ Bedding		Hard- ness	Perm.		Mineralogy		Color	Texture/ Grain Size clst ad gr mm	Lith. Char.	Lith. Class	Description/Comments
			Angle	Desc.		1°	2°	Min.	Habit					
					S	H	L	H	L	M	G	.01	1.0	100
④	111			thly bedded irregular						2.5Y		20% sand 10% silt	CS	claystone
	112			massive						4/6 dark grey		111.2 20% silt	CS	finely interbedded with silt from 110.5 to 111
	113													silt decreases
	114													↓
	115											20%		silt increases
	116													↓
⑤	117			finely bedded claystone with coarse sand fragments						2.5Y s/o grey		116 30% silt	SS	sandstone, fine grained, well cemented
	118													
	119													
	120													
⑥	121			massive						2.5Y 4/6 dark		119.3	CS	claystone
	122													above a thick layer

ESE, Inc. BORE EP-62 WELL(S)

Box No.	DEPTH Feet	Reg. Int.	U	S	Structure/ Bedding		Hard- ness	Perm.			Minerology		Color	Texture/ Grain Size clst ad gr mm	Lith. Char.	Lith. Class	Description/Comments
					Angle	Desc.		1°	2°	H	Min.	Habit					
						Massive							SY 3/1 very dark gray				CLAYSTONE
	121																
	122																
	123																
	124					thin bedded						30% carbonate 70% mudstone	2.5Y 3/0 very dark gray		124' 30% clst frag	SS	SANDSTONE, fine grained
(6)	125																
	126					massive ↓ Massive							5Y 3/1 gray				coarser grained w/ lithic clasts CLAYSTONE
	127														5% oil		
	128																
	129																

BOX NO.	DEPTH Feet	Res. Int.	Width U S	Structure/ Bedding		Hard- ness S H L	Perm.		Mineralogy		Color (M) G	Texture/ Grain Size Listed as gr. mm	Lith. Char.	Lith. Class FI	Description/Comments CM (Scale 1" = 1')
				Angle	Desc.		1°	2°	Min.	Habit					
					massive						SY 3/1 grey	.01 1.0 100		CS	CLAYSTONE
	131														
	132														
	133														
	134				massive						SY 4/1 dark grey		134'		siltstone
7	135														
	136														
	137				organic filling bioturbation								137'	SS	sandstone, fine grained deletable occasional v. thin lens } claystone
	138				ac and fillings										
	139				irregular beering structures										

WELL(S)

EP-62

BORE

E, Inc.

DEPTH Feet	Reg. Int.	Structure/ Bedding		Hard- ness	Perm.		Mineralogy		Color	Texture/ Grain Size clst ad gr mm	Lith. Char.	Lith. Class	Description/Comments
		U	S		1°	2°	Min	Habit					
									M	G			FI CM (Scale 1"= 1 ft)
141												SS	Sandstone
142													thin beds of claystone
143									5Y 3/1			CS	Claystone
144									v. dark grey				
145													
146													
147													
148									2.5Y 3/0				
149									dark grey				

ESE, Inc. BORE EP-62 WELL(S)



RA

COLORADO

11

Ground Level

THE

U.D. Logged 145 24

Natural Gamma
200 Scale = 20

2	15
Page Count	Page Count

English Language Learners

103-1421	15/8"
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$$\frac{3}{4} \times 1 = \frac{3}{4}$$

2.38 x 10⁻⁶

1.10 3 7/8

Residence _____

10 MV/Track

2004-2007

Aug. 20, 1987

Drugs
Deyde

3 7/8"

62 Ft

water + native mud

	11
--	----

Grand Tour
Being Married First

SECRET

[illegible]

21	2005-06
22	2006-07

100

1

Essays / Analysis

Casey (1992)

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100

SECRET

SECRET

Closure

10

True Vertical	Survey Depth
10	10
20	20
30	30
40	40
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70	70
80	80
90	90
100	100
110	110
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MEASURE

100

0.5 inches

S.P.

10 MV

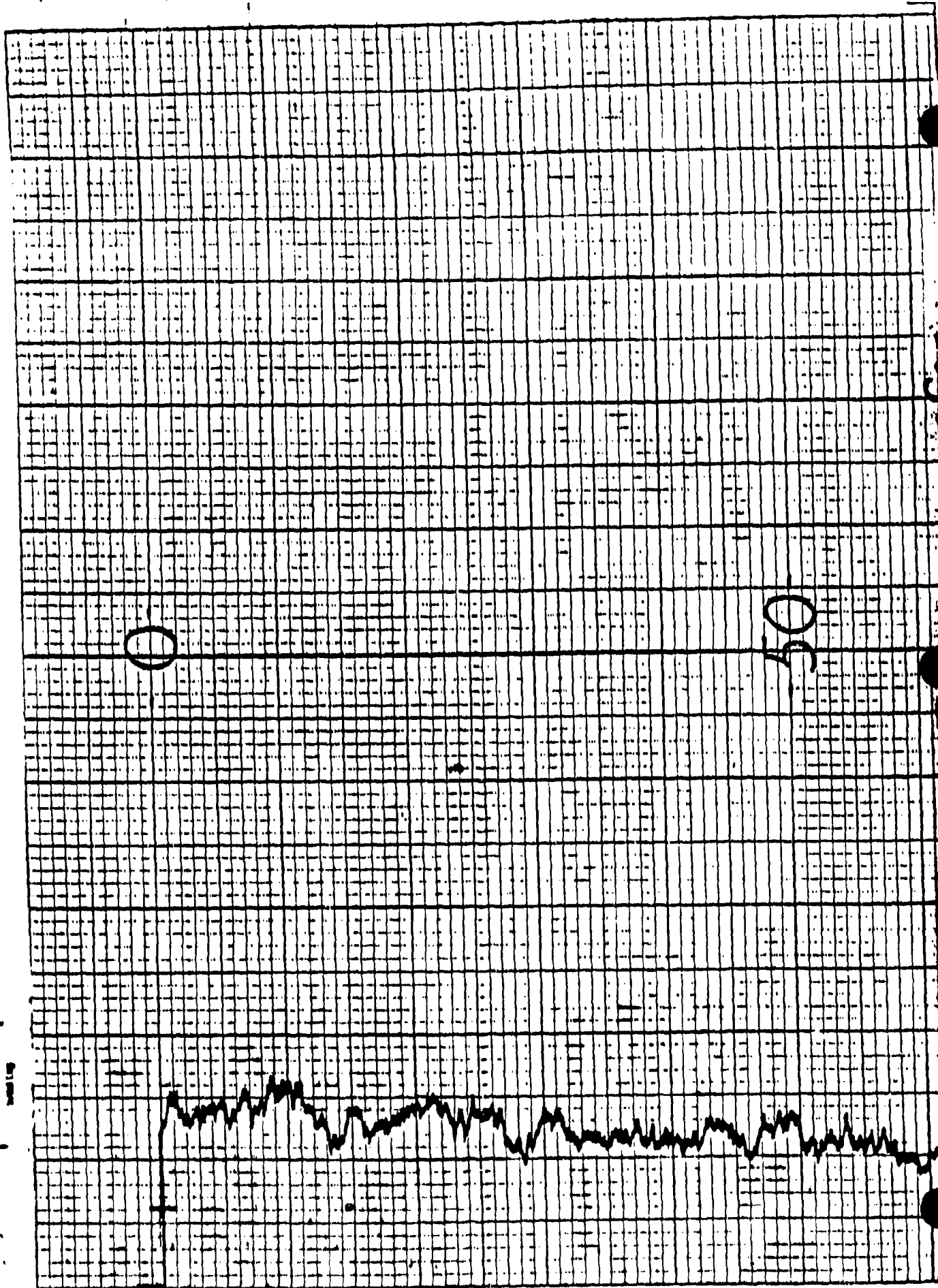
NATURAL GAMMA

20

0.5

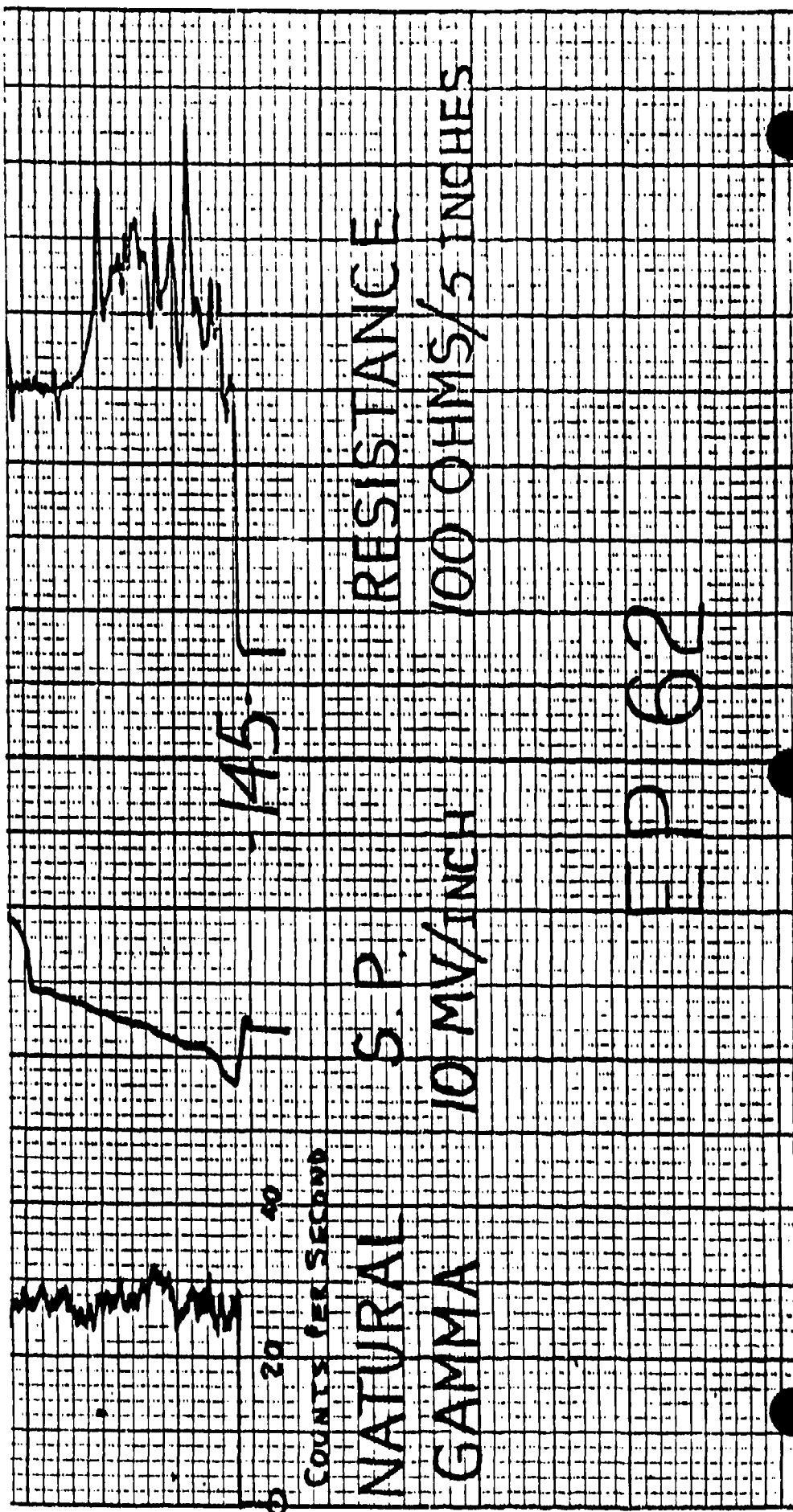
Scale Log

FRONTIER LOGGING CORPORATION



Cosine

100



WELL DEVELOPMENT DATA

Project RIWA ON-POST
Date(s) Developed 10/14/87
Personnel (Name/Company) DLW/ESE
WTV/ESE
Rig Used FPE WITH SERVICE TRUCK
Pump (Type/Capacity) GRUND.FS
Bailer (Type/Capacity) N/A
Water Source RIWA
Measured Well Depth TOC (Initial) 104.65 ft.
(Final) 104.66 ft.

Well 34011
Project Number TASK 44
Date Installed 10/7/87
Well Diameter (I.D.) 4 in.
Annulus Diameter 12 1/2 in. 0 ft. to 65 ft.
7 1/2 in. 65 ft. to 102.5 ft.
Screen Interval 92.0 ft. to 102 ft.
- ft. to - ft.
Casing Height (Above G.L.) 1.7 ft.
Bottom of Screen (Below G.L.) 102 ft.

Water Level TOC/Date/Time (Initial) 27.38/10-14-87/1113
(after 24 hrs.) 61.75/12-15-87/1351
Feet of Water in Well 77.27 ft. x 0.653 gallons/foot = 50.46 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons * One Purge Volume 63.24 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 316.2 gallons
Added Water 4 gallons Total Purge Volume 330 gallons
Casing/Annulus Volume 50.46 gallons Volume Measured By 5" CANNON DRUMS
Surge Technique PULSE/LOWERING PUMP

Calibration: pH Meter Used: ORION MODEL 721 SN. 615828
pH 7.00 = 7.05 at 12.6 °C, pH 10.00 = 10.13 at 10.1 °C
Conductance Meter Used: YSI MODEL 23 HLA #3
Standard 1413 umhos/cm at 25°, Reading 1030 umhos/cm at 11.9 °C
1306 at 25°C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
0 gal.	1156	12.2	11.73	460 @ 12.2°C 580 @ 25°C	mostly w/ clumps of gray silt.
65 gal.	1247	14.2	10.94	330 @ 15.0°C 390 @ 25°C	cloudy w/ clumps of gray silt
100 gal.	1501	12.7	9.86	100 @ 25°C	slightly cloudy w/ clumps of silt
107 gal.	1537	13.1	9.85	980 @ 25°C	cloudy w/ brown silt
Final					

Remarks: Initial RIWA (100) = 7 → 3 gal.

2nd RIWA (100) = 7.5 → 3.5 gal. 1st RIWA (100) = 10.1 → 10.1 gal.

* 1 Purge vol = 50.46 (casing vol.)
= 12.78 (surge vol.)
= 33.24 gal.

Retreated several times to 53 gallons 2.10 gallons

Surge vol = 102 (100 + 2 gal.)

= 33 (100 + 2 gal.)

Surge vol = 15 x 2.10 gal. = 31.5 gal.

Collected by DLW Date 10/14/87

Checked by DLW Signature DLW Date 10/14/87

WELL DEVELOPMENT DATA

Bore EP-62 DI Well 34011
Project TEMA ON-POST Project Number TRK 44
Date(s) Developed 10/15/87 Date Installed 10/7/87
Personnel (Name/Company) DW / ESE Well Diameter (I.D.) 4 in.
WTV / ESE Annulus Diameter 12 1/4 in. 0 ft. to 65 ft.
2 3/8 in. 65 ft. to 103.5 ft.
Rig Used ESE WALK RESURF TRUCK Screen Interval 92.0 ft. to 102.0 ft.
Pump (Type/Capacity) COLUMBUS / 25 GPM Casing Height (Above G.L.) 1.7 ft.
Bailer (Type/Capacity) N/A Bottom of Screen (Below G.L.) 102 ft.
Water Source RECH
Measured Well Depth TOC (Initial) 104.65 ft.
(Final) 104.66 ft.
Water Level TOC/Date/Time (Initial) 27.38/10-14-87/1115
(after 24 hrs.) 61.75/12-15-87/1351
Feet of Water in Well 77.27 ft. x 0.653 gallons/foot = 63.24 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons * One Purge Volume 63.24 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 316.2 gallons
Added Water 0 gallons Total Purge Volume 330 gallons
Casing/Annulus Volume 50.46 gallons Volume Measured By SS GIL. DILLON
Surge Technique RAISE/LOWER PUMP
Calibration: pH Meter Used: BECKMAN 21 SM 015883
pH 7.00 = 7.06 at 9.9 °C, pH 10.00 = 10.18 at 9.9 °C
Conductance Meter Used: YSI MODEL 32 ESE # 2 SN: 2603
Standard 1413 umhos/cm at 25°, Reading 1414 umhos/cm at 2.5 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 107	1038	13.1	8.90	1007	partly cloudy some pinkish color
115 130-20	1153	16.2	8.06	982	partly cloudy
Final					

Remarks: Initial surge = 1-2 ppm. water level = 62.0/10-15-87/1000
Pumping rate at 7 GPM pump = 0.14 GPM water level = 70.4/12-15-87/1351
Will not producing water; pull pump to check if screen is clogged; showed have been able to pump 27 gallons, shut down for now until allow recharge.
Collected by [Signature] 10/15/87
Checked by [Signature] 10/15/87

WELL DEVELOPMENT DATA

Bore EP-6201 Well 34011

Project RMA ON ASST Project Number TASK 44

Date(s) Developed 10/27/87 Date Installed 10/7/87

Personnel (Name/Company) DW 158E Well Diameter (I.D.) 4 in.

WTV 158E Anulus Diameter 12 1/2 in. 0 ft. to 65 ft.

Rig Used ESE WELL SERVICE TRUCK Screen Interval 7.3 in. 65 ft. to 103.5 ft.

Pump (Type/Capacity) GRUNDOS / 200 GPM Casing Height (Above G.L.) 1.7 ft.

Bailer (Type/Capacity) N/A Bottom of Screen (Below G.L.) 102 ft.

Water Source RMA

Measured Well Depth TOC (Initial) 104.65 ft.

(Final) 104.66 ft.

Water Level TOC/Date/Time (Initial) 27.30 / 10-14-87 / 1117

(after 24 hrs.) 61.75 / 12-15-87 / 1351

Feet of Water in Well 77.27 ft. x 0.653 gallons/foot = 63.24 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons

Purge Water Lost N/A gallons

Added Water 0 gallons

Casing/Anulus Volume 50.46 gallons

One Purge Volume 63.24 gallons

Minimum Purge Volume 316.2 gallons

Total Purge Volume 330 gallons

Volume Measured By 55 GALLON DRUM

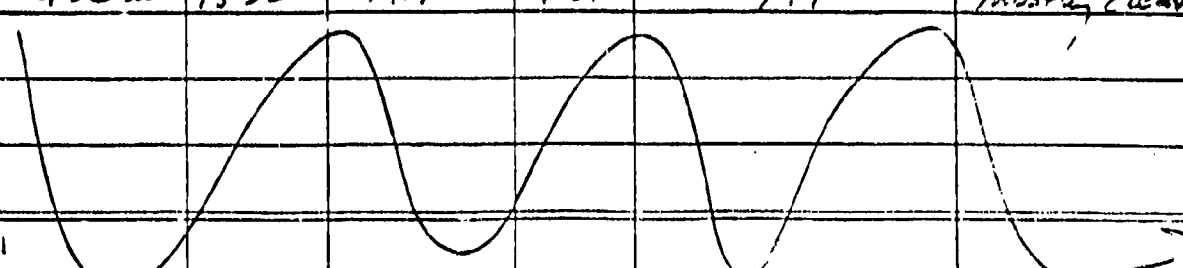
Surge Technique RAISE / LOWER PUMP

Calibration: pH Meter Used: BECKMAN 621 SN: WISSE?

pH 7.00 = 7.02 at 19.0 °C, pH 10.00 = 10.07 at 19.5 °C

Conductance Meter Used: TSE MODEL 32 ESE #2

Standard 1413 umhos/cm at 25°, Reading 14.2 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25 °C	Physical Characteristics (clarity, odor, sand content, color)
Initial <u>115</u> <u>120</u> gal	<u>1522</u>	<u>14.4</u>	<u>9.21</u>	<u>957</u> ^{DW} <u>985</u>	<u>partly cloudy</u>
<u>145</u> <u>150</u> gal	<u>1532</u>	<u>14.9</u>	<u>9.01</u>	<u>979</u>	<u>mostly clear</u>
					
Final					<u>DW</u>

Remarks: Dewatered at 30 gallons (1532) Water level = 61.75

Collected by WST / WSS, JR. 11.27.87

Signature _____ Date _____

Checked by [Signature] 3.11.87

Signature _____ Date _____

WELL DEVELOPMENT DATA

Bore EP-62-D1 Well 34011

Project RMA ON-POST Project Number TK 44

Date(s) Developed 12-10-87 Date Installed 10-7-87

Personnel (Name/Company) WV / ESE Well Diameter (I.D.) 4.0 in.

KBA / ESE Annulus Diameter 12 1/2 in. 0 ft. to 65 ft.

Rig Used Well service truck 7 1/2 in. 65 ft. to 103.5 ft.

Pump (Type/Capacity) ISCO Screen Interval 42.0 ft. to 103.0 ft.

Bailer (Type/Capacity) _____ ft. to _____ ft.

Water Source RMA Casing Height (Above G.L.) 1.7 ft.

Measured Well Depth TOC (Initial) 104.65 ft. Bottom of Screen (Below G.L.) 102 ft.

(Final) 104.66 ft.

Water Level TOC/Date/Time (Initial) 61.0 / 12-10-87 / 10:53

(after 24 hrs.) (original level = 27.33 / 10-14-87 / 11:15) 61.75 / 12-15-87 / 12:51

Feet of Water in Well 43.65 ft. x 0.653 gallons/foot = 28.5 gallons casing/annulus volume

Drilling Fluid Lost _____ gallons One Purge Volume 63.24 gallons

Purge Water Lost _____ gallons Minimum Purge Volume 316.2 gallons

Added Water _____ gallons Total Purge Volume 380 gallons

Casing/Annulus Volume 50.46 gallons Volume Measured By 55 gal.

Surge Technique raise & lower pump

Calibration: pH Meter Used: Beckman D21 SN 015553

pH 7.00 = 7.04 at 13.4 °C, pH 10.00 = 10.14 at 13.1 °C

Conductance Meter Used: Beckman Phi-21 SN 015553 YSE #32

Standard 1413 umhos/cm at 25°, Reading 1067 umhos/cm at 14.0 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial <u>145</u>	<u>1128</u>	<u>13.7</u>	<u>9.14</u>	<u>541</u>	<u>very clear</u>
<u>210</u>	<u>1455</u>	<u>13.0</u>	<u>8.35</u>	<u>1023</u>	<u>clear</u>
Final					

Remarks: _____

Collected by 11/18/87 11:50 AM 12-10-87
Signature _____ Date _____

Checked by 11/18/87 11:50 AM 12-10-87
Signature _____ Date _____

WELL DEVELOPMENT DATA

Bore EP62-DL Well 34011

Project RMA ON POST Project Number TSK 441

Date Developed 10-11-87 Date Installed 10-7-87

Personnel (Name/Company) WNV/ESE Well Diameter (I.D.) 4.0 In.

KBP/ESE Annulus Diameter 12 1/2 In. 0 ft. to 6.5 ft.

Rig Used Well Service Truck 27 1/2 In. 6.5 ft. to 103.5 ft.

Pump (Type/Capacity) ISCO Screen Interval 92 ft. to 102 ft.

Bailer (Type/Capacity) ft. to ft.

Water Source RMA Casing Height (Above G.L.) 6.7 ft.

Measured Well Depth TOC (Initial) 104.65 ft. Bottom of Screen (Below G.L.) 102 ft.

(Final) 104.66 ft.

Water Level TOC/Date/Time (Initial) 27.38 / 10-14-87 / 1113

(after 24 hrs.) 61.75 / 12-15-87 / 1351

Feet of Water in Well 77.27 ft. x 0.653 gallons/foot = 63.24 gallons casing/annulus volume

Drilling Fluid Lost gallons One Purge Volume 63.24 gallons

Purge Water Lost gallons Minimum Purge Volume 316.2 gallons

Added Water gallons Total Purge Volume 380 gallons

Casing/Annulus Volume 63.24 gallons Volume Measured By 55 gal. barrel

+ Sample purge vol. = 12.75 Surge Technique raise & lower pump

Calibration: pH Meter Used: Beckman Phi 21 SN: 015333

pH 7.00 = 7.05 at 11.8 °C, pH 10.00 = 10.15 at 12.7 °C

Conductance Meter Used: YSI #2603

Standard 1413 umhos/cm at 25°, Reading 1413 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, color, sand content, odor)
Initial <u>210</u>	<u>0854</u>	<u>12.2</u>	<u>7.86</u>	<u>1052</u>	<u>very clear</u>
<u>225</u>	<u>1257</u>	<u>12.5</u>	<u>7.83</u>	<u>1094</u>	<u>same</u>
<u>390</u>	<u>1507</u>	<u>11.0</u>	<u>8.46</u>	<u>1115</u>	<u>same</u>
—	—	—	—	—	—
—	—	—	—	—	—
Final	—	—	—	—	—

Remarks: Water level TOC = 61.82 10-11-87 1014H

27.38 / 10-14-87 1113

Final water

Collected by Kenn Wilson 12/11/87

Checked by

EP-65

BOREHOLE SUMMARY LOG

Borehole EP 65 Well _____
Project Name and Location MW installation Project Number Task 44
Drilling Company Boyles Driller B. Roach Rig Number Trilling 1520
Drilling Method(s) continuous core - rotary

Size(s) and type(s) of bit(s) 7 7/8" triume, 3 7/8" blade
Borehole Diameter 7 7/8 in. _____ cm. 0 ft. _____ cm. to 40 ft. _____ cm.
3 7/8 in. _____ cm. 40 ft. _____ cm. to 150 ft. _____ cm.

Sampling Methods Continuous core

Total Number Soil Sampling Tubes _____

Total Number Core Boxes 11

Number of Gallons Lost Drilling Fluid _____

Date/Time Started Drilling 8-6-87 0741

Date/Time Completed Drilling 8-10-87 1208

Total Borehole Depth 150 ft. _____ cm.

Depth to Bedrock 34 ft. _____ cm.

Depth to Water _____ ft. _____ cm.

Water Level Determined By? _____

Borehole Completed as Monitoring Well? NO

Date/Time Grouting Completed 8-10-87 0905

Depth of Tremmie Pipe 145 ft.

Gallons of Grout 100 gals.

Materials Used 10 bags cement, 100 gals. water, 1 bag bentonite

Comments hole grouted to surface - then slotted for surveys

Wellsite Geologist CD Benson Date 3-11-87

Checked for Grout Settlement on _____ by _____

Amount of Grout Added _____

All Measurements from Ground Level

Reviewed by _____ Date _____

Drill Site Geologist _____ Date _____

Borehole: LP-65

Well Number: _____

Depth - feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG
						Description
						<i>MUNSELL COLORS</i>
0			NA		ML	Sandy-silt, ~10-15% f.g. sand, 10 YR 5/2-3, graysh. brown, non-plus, med. dense, dry, alluvium.
1	0-2'	2'		0-2'		
2						At 3.0', clayey-silt, ~20-30% clay, 10 YR 5/3, brown, non-plus, dense, dry, alluvium.
3	2-4'	1.8'		2-4'		
4						At 4.0', clayey-fine sands, ~30% clay, 10 YR 5/4, yash brown, slightly plus, stiff, slightly moist, alluvium.
5	4-6'	2'		4-6'		
6						

Drill Site Geologist: [Signature]

Date: 9/16/57

Reviewed By: [Signature]

Date: 11/15/57

Borehole: EP-65

Well Number: _____

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
						MUNSELL COLORS
6			NA		ML	Clayey fine-sands, ~ 30-40% clay, ~ 30% v.f. gr. calcareous sands, 10 YR 6/4, light yellow brown, mottled w/ 10 YR 8/1, white, slightly plus., stiff, slightly moist, alluvium.
7	6-8'	1.6'		6-8'		
8						At 8.0', clayey fine-sands, percent clay decreases to ~ 10-15%, 10 YR 5/4, yellow brown, non- plus., loose, moist, alluvium.
9	8-10'	2'		8-10'		
10						At 10', clayey-fine sands, ~ 15-20% Clay, ~ 20-30% silt, 10 YR 5/4 yellow brown, v. slight plus., soft, moist, alluvium.
11	10-12'	2'		10-12'		
12						

LAB

Drill Site Geologist: A.E. Enticella

Date: 9/16/87

Reviewed By: John Jones

Date: 10/15/87

Borehole: EP-65

Well Number: _____

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
						MUNSELL Colors
12			NA		ML	
13						At 13.0', clayey fine-sands, 20% clay, 10 YR 5/6-8 ywash. brown, v. slight plus, soft, moist, alluvium.
14						
15					CL	Gravelly, sandy-clay, ~ 20% gravel (1/4" dia), 30% v. fine sand, 10 YR 5/3-4, brown, med. plus, med. stiff, moist, alluvium.
16					GC	At 16', gravelly, sandy to clayey, sandy-gravels, ~ 20% clay, 30% fine-med gr sand, 10 YR 5/4-6 ywash brn, non-plus, loose, moist, alluvium.
17					SP	Gravelly-sands, ~ 30-40% gravel (1/4-1/2" dia), fine med gr sands, 10 YR 5/4-6 ywash brn, non-plus, loose, slightly moist, alluvium.
18						

END OF BORING LOG

Lab. Site Geologist: A. R. [Signature]

Date: 7/16/83

Reviewed By: [Signature]

Date: 11/15/87

NO. 1	DEPTH Feet Int.	Mud U S	Structure/ Bedding		Hard- ness S	Perm.		Mineralogy		Color M G	Texture/ Grain Size clst ad gr mm	Lith. Char.	Lith. Class FI	Description/Comments CM (Scale 1" = 2' 11)
			Angle	Desc.		1°	2°	Min.	Habit					
														bedrate (claystone) at 36' drill & set casing to 40'
	40													coring begins at 40'
	42	3/3		fracs. 1-3 1-									CL	CLAYSTONE
	44	5/5												Note: poor core recovery from 40' to ~80' — contacts are as accurate as possible with this erratic core
	46													
	48	5/4		massive									SS	SANDSTONE
	50	1/1												CLAYSTONE
	52	10/2												
	54	10/1		x-bedding fine undulating bedding										CLAYSTONE
	56	15/2												
	57													carbonaceous

WELL(S)

BORE EP-65

ESE, Inc.

[illegible]

BOX NO.	DEPTH Feet	U.S.	Structure/ Bedding		Hard- ness	Perm.		Mineralogy		Color (M) G	Texture/ Grain Size			Lith. Char.	Lith. Class	Description/Comments FI CM (Scale 1" = 2' (1)...
			Angle	Desc.		1°	2°	Min	Habit		cl	ad	gr			
					S	H	L	H	L		01	10	100			
	80			massive but friable						2.5y 6/4 lt. yellowish brown				78'	SS	SANDSTONE poorly cemented / friable ss med. grained, primarily qtz.
	82															
	84															
	86															
	88															
	90			occas. coarse bedding												
	92			less friable												
	94															
	96															
	98															
	100															

black staining on core -
looks oily, but is H₂O
readings - does not appear
natural/native

SS / less friable

oxidation boundary?
one of FeO_x, hematite, etc.
change to gray
at corner as far as 1' with
little (claystone) frags.

96' - 97' ST clayey SILTSTONE

97' - 98' CL CARBONACEOUS CLAYSTONE

BORE EP-65 WELL(S)

fractured

little
frayage
2.5y
N40
dk
gray

pyrite
max 2.5y
N40

(100x20)	DEPTH	Reg. Int.	U S	Structure / Bedding		Hard-ness	Perm.			Mineralogy		Color	Texture / Grain Size clst sd gr min 01 1.0 100	Lith. Char.	Lith. Class	Description / Comments
				Angle	Desc.		1"	2"	H	Min.	Habit					
					36°	Slickenside				3 1/8" calc. vlnth		2.5y N 3/0 wdy dk gray		98° carb. 10% pervasive peccat. frags	CL	<u>CLAYSTONE</u> <u>Carbonaceous</u>
	100															
	102				45°	Slickenside										
	104					massive but friable				con frags 5-7% (wrt. 1/4")		2.5y N 6/0 gray		101.6	SS	101.6 - 102' mottled claystone, 12. carbon frags, and siltstone <u>SANDSTONE</u> <u>SILTY</u>
	106															
(5)	108															silt gradually decreasing, ss becoming coarser
	110															End of con. frags
	112															Sandstone very friable, poorly cemented
	114															ss now med. grained, mostly qtz.
(6)	116															

NOTE AGAIN:
This sandstone is very poorly cemented and very friable. Moderate washing of the core results in large gaps -
The point: if this is increased, cleaning the hole or reworking the well will result in assurance sands filling in, probably.

} thin interbeds of liner spined ss

BOX no.	DEPTH Feet	Width In.	Structure / Bedding		Hard- ness	Perm.				Mineralogy		Color M G	Texture / Grain Size dist ad gr mm .01 1.0 100	Lith. Char.	Lith. Class	Description / Comments	
			Angle	Desc.		S	H	L	H	Min.	Habit						
			U S														



Frontier Logging

Late: ood, Colorado

Date Aug. 11, 1987

ESE

150 Ft

EP 65

3 7/8"

RMA

drill pipe to 85 Ft

0735 0835

ADAMS COUNTY

COLORADO

110

water + native mud

W. Linton

Ground Level

Ground Level

Lakewood

EQUIPMENT DATA

145 Ft.

200 Scale = 20

2 15

103-1041 1 5/8"

xtal 3/4 x 1 1/4"

1.60 x 10⁻⁵ 7

1.10 3 7/8"

Resistance 100 ohms/5"

SP 20 mv/Inch

Run #1 Hde blocked @ 73 Ft

going thru 56 Ft of

drill pipe

Run #2 Logged thru 85 Ft

of drill pipe

DIRECTIONAL DATA

Closure

Azimuth

True Vertical

Survey Depth

Tension Source No

Gamma (Anger)

Gamma (Ortec)

Cur per

Temperature

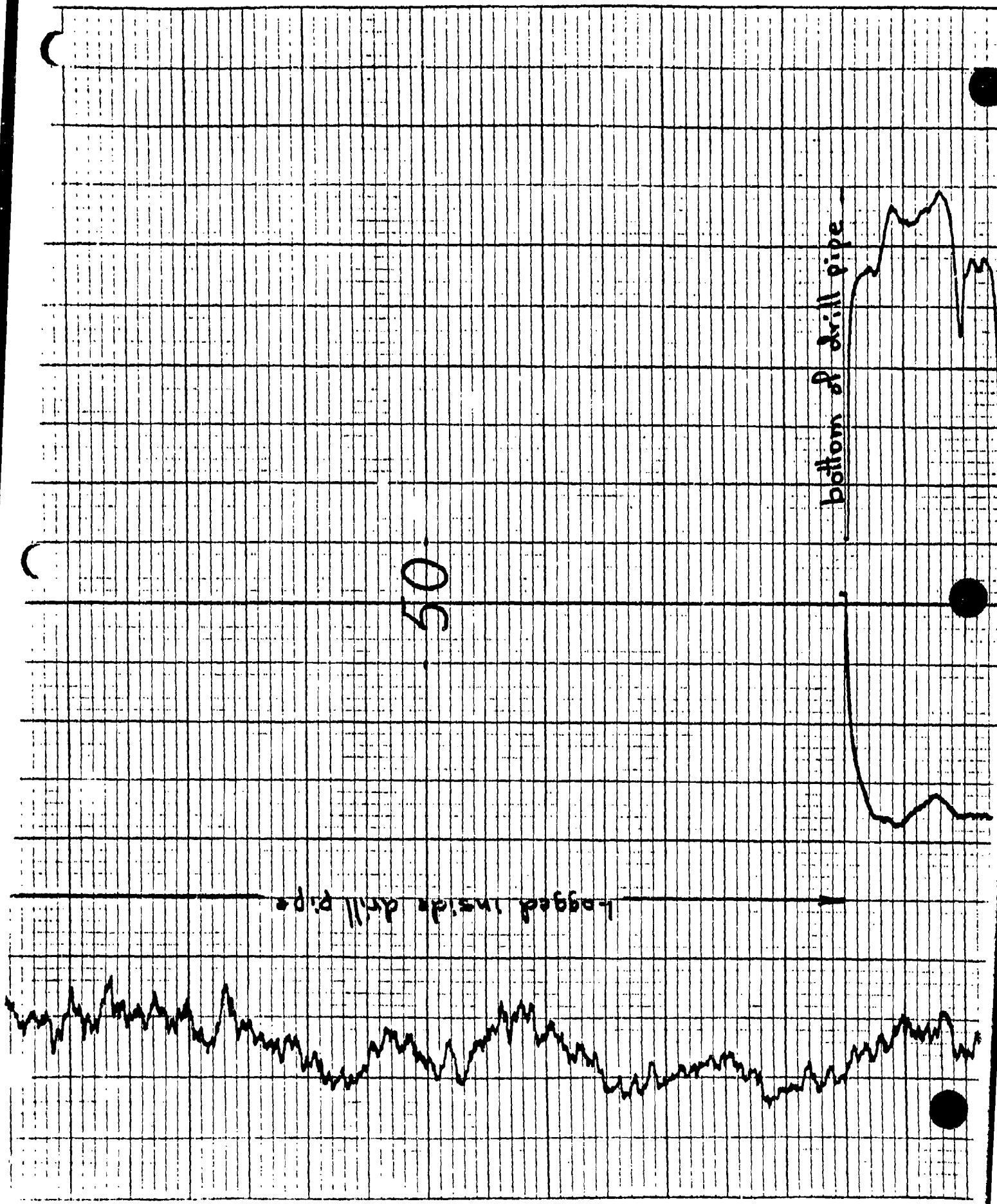
Neutron Source No

Closure

Azimuth

True Vertical

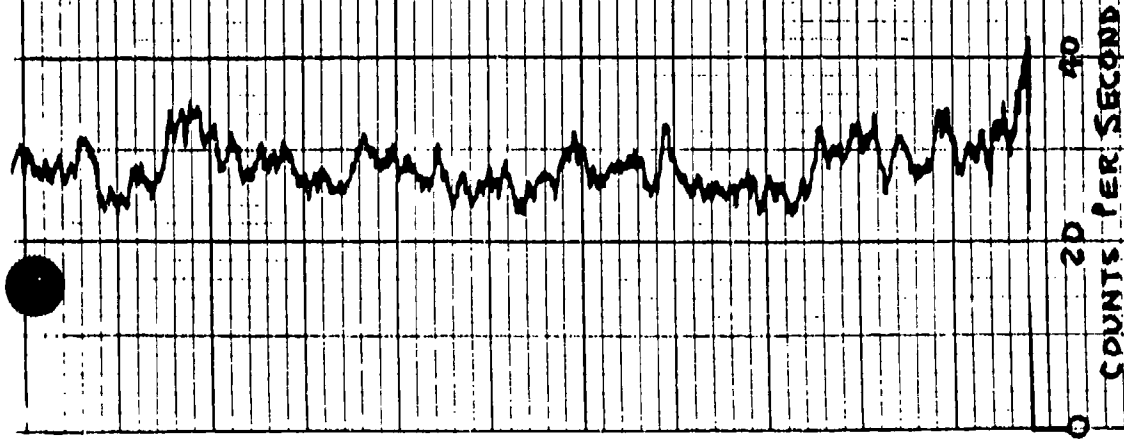
Survey Depth



logged inside drill pipe

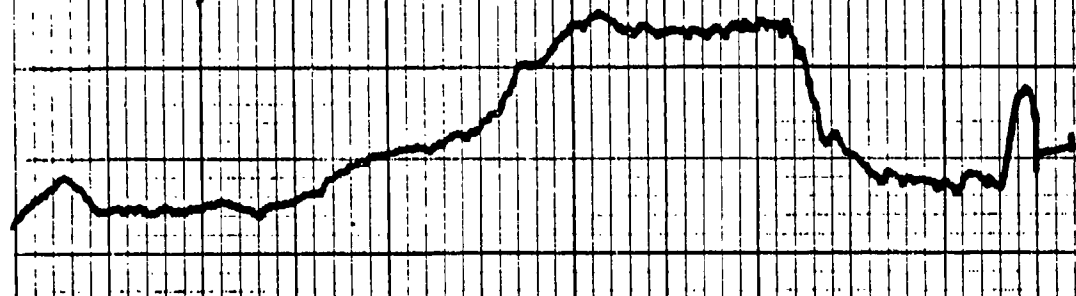
bottom of drill pipe

50



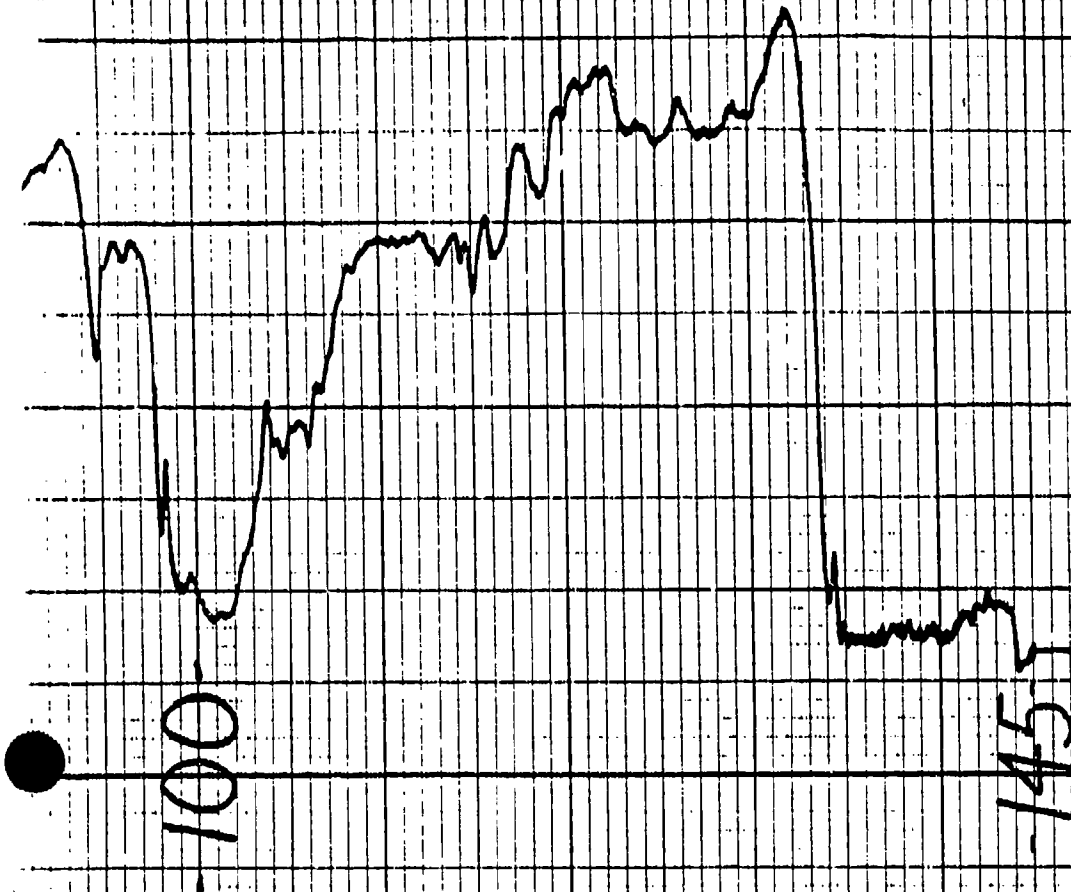
NATURAL

GAMMA



SP.

20 MV/INCH



RESISTANCE

100 OHMS/5 INCHES

EP-65

WELL CONSTRUCTION SUMMARY

Borehole EP-65 D1 Well 34012
Project Name and Location RMA T44, SE 1/4 Sect. 34 Project Number 17053-081-10
Drilling Company Baylen Bros. Driller D. Lavin Rig Number 28
Drilling Method(s) Rotary

Borehole Diameter 12 1/4 in. _____ cm. _____ 0 ft. _____ cm. to _____ 46 ft. _____ cm.
7 7/8 in. _____ cm. _____ 46 ft. _____ cm. to _____ 98 ft. _____ cm.

Size(s) and types of Bit(s) 12 1/4" 7 7/8" Blade Bits

Size and Type PVC 4" ID Sch 40

Total Borehole Depth 98 ft. _____ cm.

Depth to Bedrock 10.56 ft. 36 ft. _____ cm.

Depth to Water _____ ft. _____ cm.

Water Level Determined By _____

Length Plain PVC (total) 77.23 ft. _____ cm.

Length of Screen 21.37 ft. _____ cm.

Total Length of Well Casing 98.6 ft. _____ cm.

PVC Stick Up 1.6 ft. _____ cm.

Depth to Bottom of Screen 96.5 ft. _____ cm.

Depth to Top of Screen 75.98 ft. _____ cm.

Depth to Top of Sand 71.0 ft. _____ cm.

Depth to Top of Bentonite 65.0 ft. _____ cm.

Sampling Method(s) Previously Coral

Date/Time Start Drilling 10/18/87 0745

Date/Time Finish Drilling 10/19/87 0945

Date/Time Start Completion 10/19/87 1230

Date/Time Cement Protective Casing _____

Materials Used 101.70' PVC

Plain PVC 80.33'

Slotted PVC 21.37'

Bentonite Pellets 2.5 bushels (150 lb)

Bentonite Granular 7 1/2 bu @ 1.66 (80 lb)

Cement 7 bu @ 16.6 (140 lb)

Sand 5 bu @ (500 lb) Cal. Silica

Water added during completion 0

Water added during drilling 0

Total Gallons of water added 0

Drill Site Geologist A. S. Dettelle

Date 10/19/87

when hole not complete 10/14/87 1340 Dettelle

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 10/20/87 1430 Dettelle

Date/Time/Personnel Casing Painted 10/21/87 1000 Dettelle

Date/Time/Personnel Numbers Painted 10/21/87 1520 Dettelle

Materials Used 16 3165 SAE PIPE

Top of Protective Casing to Top of PVC 0.40 ft. _____ cm.

Top of Protective Casing to Weep Hole 1.54 ft. _____ cm.

Top of Protective Casing to Internal Mortar 1.77 ft. _____ cm.

Top of Protective Casing to Top of Cement Pad 1.55 ft. _____ cm.

Top of Protective Casing to Ground Level 1.35 ft. _____ cm.

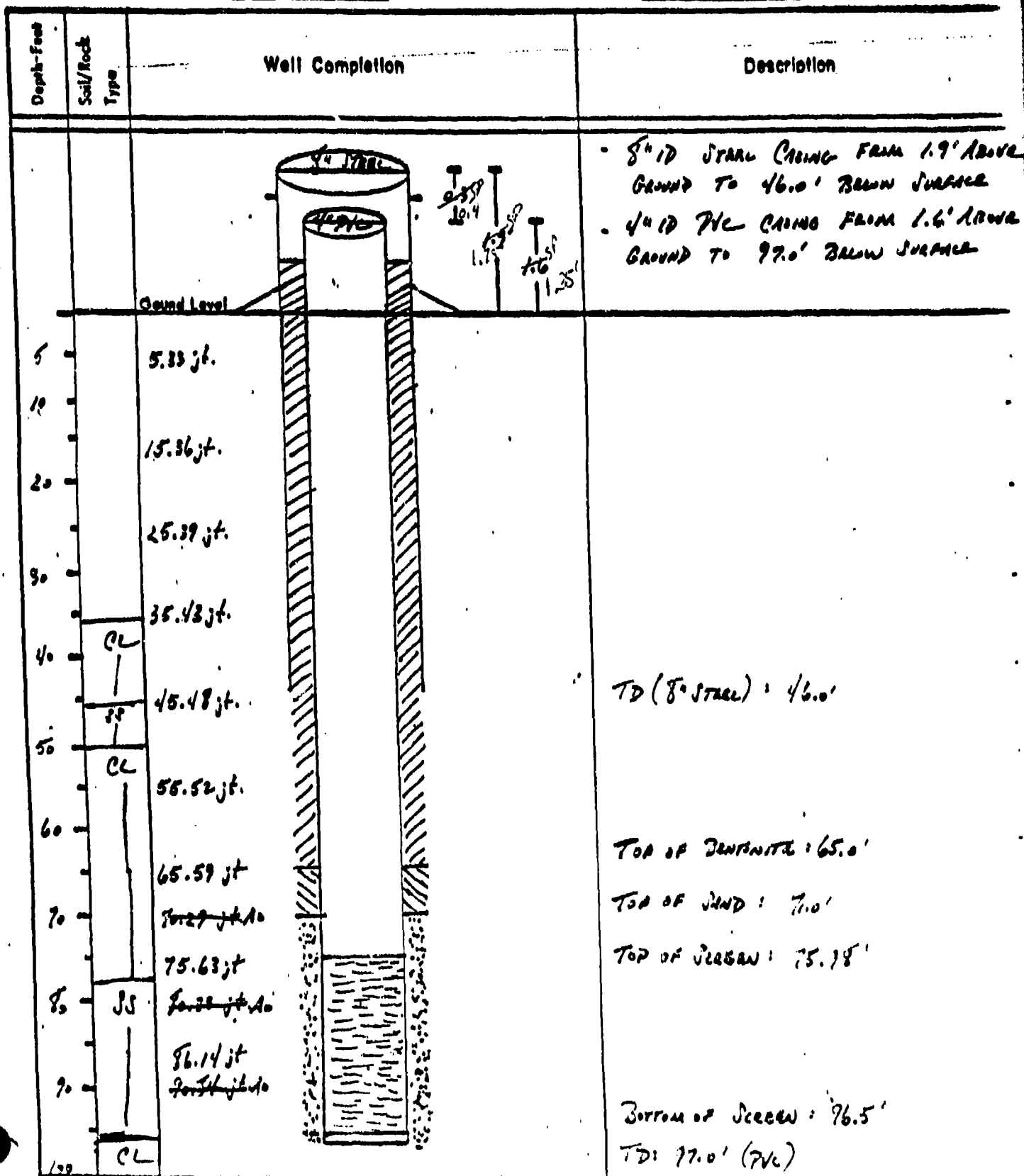
COMMENT/NOTES

Reviewed By A. S. Dettelle Date _____

Drill Site Geologist _____ Date _____

Borehole: EP-6571

Well: 34012



Drill Site Geologist: A.C. Votaw
Reviewed By: [Signature]

Date: 10/9/87
Date: 11/17/87

WELL DEVELOPMENT DATA

Bore EP-6501
Project RMA ON-POST
Date(s) Developed 10/26/87
Personnel (Name/Company) DLW / ESE
WTV / ESE
Rig Used FSE WFL SERVICE TOWER
Pump (Type/Capacity) GRINDFOS / 2.6 GPM
Bailer (Type/Capacity) N/A
Water Source RMA
Measured Well Depth TOC (Initial) 95.95 ft.
(Final) 92.50 ft.

Well F34012
Project Number TABLE 44
Date Installed 10/9/87
Well Diameter (I.D.) 4 in.
Anulus Diameter 12 1/4 in. 0 ft. to 46 ft.
7 3/8 in. 46 ft. to 98 ft.
Screen Interval 75.58 ft. to 96.5 ft.
— ft. to — ft.
Casing Height (Above G.L.) 1.6 ft.
Bottom of Screen (Below G.L.) 96.5 ft.

Water Level TOC/Date/Time (Initial) 73.0 / 10-20-87 / 1015
(after 24 hrs.) 72.90 / 10-28-87 / 1530

Feet of Water in Well 22.95 ft. x 0.653 gallons/foot = 14.99 gallons casing/anulus volume
Drilling Fluid Lost 0 / 11 gallons
Purge Water Lost 0 / 11 gallons
Added Water 0 / 11 gallons
Casing/Anulus Volume 15 gallons

* One Purge Volume 40 gallons
Minimum Purge Volume 200 gallons
Total Purge Volume 300 gallons
Volume Measured By 55 GALLON DRUM
Surge Technique RAISE / CONTROL PUMP

Calibration: pH Meter Used: BRIDGMAN 121 SN: 015482
pH 7.00 = 7.02 at 18.9 °C, pH 10.00 = 10.08 at 18.9 °C
Conductance Meter Used: FSE MODEL 32 FSE 42
Standard 1413 umhos/cm at 25°, Reading 1413 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 5 gallons	1038	15.0	12.81	1563	'Soupy' muddy brown with residue in sand
40 gallons	1052	14.4	10.13	496	cloudy w/ brown silt fine black lin. sand
80 gallons	1108	14.5	9.15	539	Cloudy w/ brown silt of brown/black fine sand
120 gallons	1134	13.8	8.32	574	Cloudy w/ fine brown lin. sand
160 gallons	1143	13.7	7.65	520	Cloudy w/ brown fine sand little silt / particles
Final 200 gallons	1156	14.0	7.79	552	Cloudy w/ brown/black fine sand little silt

Remarks: Initial HNU (TOL) = 2.0-3.0 ppm.
Sampled @ 93 gallons (17 min. volume)

Sandpoint vol: 25.5 ft ~ 0.852 gals ~ 0.217 gal.
1 Purge vol. = 150 gal. (Casing vol.)
= 0.7 gal (Sandpoint vol.)
0.7 gal. ~ 0.15 gals

Collected by [Signature] Date 10/26/87
Checked by [Signature] Date 10/26/87

WELL DEVELOPMENT DATA

Bore EP-65D1 Well 341012

Project RWA ON TEST Project Number 7156 44

Date(s) Developed 10/20/87 Date Installed 10/2/87

Personnel (Name/Company) DLW / ESE Well Diameter (I.D.) 4 in.

WTV / ESE Anulus Diameter 12 1/2 in. 0 ft. to 46 ft.

Rig Used ESE WITH CRANE TRAILER 7 1/2 in. 46 ft. to 98 ft.

Pump (Type/Capacity) CONCRETE / 26 GPM Screen Interval 78 1/2 ft. to 98 1/2 ft.

Bailer (Type/Capacity) N/A — ft. to — ft.

Water Source RWA Casing Height (Above G.L.) 1.6 ft.

Measured Well Depth TOC (Initial) 55.55 ft. Bottom of Screen (Below G.L.) 96.5 ft.

(Final) 78.90 ft.

Water Level TOC/Date/Time (Initial) 73.0 / 10-20-87 / 10:15

(after 24 hrs.) 72.40 / 10-24-87 / 1530

Feet of Water in Well 22.95 ft. x 0.653 gallons/foot = 14.99 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons * One Purge Volume 40 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 200 gallons

Added Water 0 gallons Total Purge Volume 300 gallons

Casing/Anulus Volume 15 gallons Volume Measured By SS CRANE TRAILER

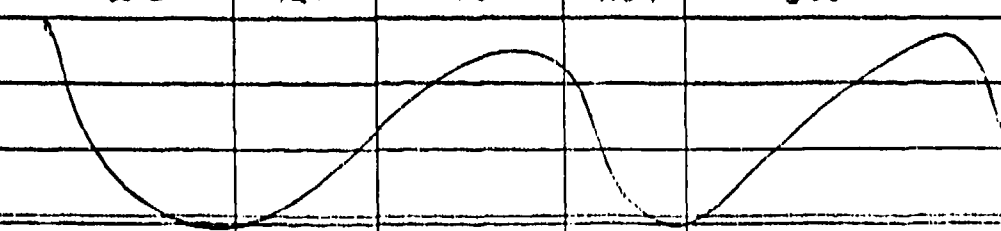
Surge Technique RAISE / LOWER PUMP

Calibration: pH Meter Used: BECKMAN 421 SN: 015083

Recalibration → pH 7.00 = 7.02 at 19.0 °C, pH 10.00 = 10.09 at 19.4 °C

Conductance Meter Used: ESE MDEL 32 ESE 12

Standard 1412 umhos/cm at 25°, Reading 1413 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25 °C	Physical Characteristics (clarity, odor, sand content, color)
<u>Initial</u> <u>240</u>	<u>1208</u>	<u>13.9</u>	<u>7.00</u>	<u>627</u>	<u>partly cloudy w/ brown/black fine sand.</u>
<u>Final</u> <u>300</u>	<u>1235</u>	<u>14.0</u>	<u>7.64</u>	<u>600</u>	<u>partly cloudy w/ brown/black fine sand.</u>
					
Final					<u>DLW</u>

Remarks: HANA (TOC) at 250 gallons - 0.0 ppm

Water showed no sign of becoming completely clear.

1 Purge vol. = 150 gal. (casing vol.)
= 21.7 gal. (casing vol.)
30.7 gal. = 10 gallons

Collected by [Signature] Date 10/30/87

Checked by [Signature] Date 10/30/87

WELL CONSTRUCTION SUMMARY

Borehole EA-65 Dr Well 34013
Project Name and Location RMA Tare 44, S44 Sec. 84 Project Number 081
Drilling Company Boggs Bros. Driller Tom Garcia Rig Number TR
Drilling Method(s) Rotary wash

Borehole Diameter 16 1/4 in. 0 ft. 39 ft. 98 ft.
11 3/4 in. 39 ft. 98 ft. 135 ft.
7 7/8 in. 98 ft. 135 ft.

Size(s) and types of Bit(s) 16 1/4" 12440 7 7/8"
11 3/4" Blade Bits

Size and Type PVC 4" Sch. 40

Total Borehole Depth 135 ft. cm.

Depth to Bedrock 36 ft. cm.

Depth to Water — ft. cm.

Water Level Determined By —

Length Plain PVC (total) 107.55 ft. cm.

Length of Screen 26.72 ft. cm.

Total Length of Well Casing 134.30 ft. cm.

PVC Stick Up 1.3 ft. cm.

Depth to Bottom of Screen 106.58 ft. 132.5 ft. cm.

Depth to Top of Screen 106.44 ft. cm.

Depth to Top of Sand 101.0 ft. cm.

Depth to Top of Bentonite 96.0 ft. cm.

Sampling Method(s) Travelling head

Date/Time Start Drilling 10/18/87 1050

Date/Time Finish Drilling 10/14/87 1240

Date/Time Start Completion 10/14/87 1445

Date/Time Cement Protective Casing —

Materials Used —

Plain PVC 137.27'

Slotted PVC 26.72'

Bentonite Pellets 2 buckets (100 lb.)

Bentonite Granular 5 bags (250 lb.)

Cement 45 bags (4050 lb.)

Sand 8 bags (800 lb.)

Water added during completion 0

Water added during drilling 0

Total Gallons of water added 0

Drill Site Geologist A.S. D'Amico

Date 10/15/87

INTERNAL MORTAR/WEEP HOLE 10/14/87 1515 DAW

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 10/20/87 1500 DAW & WTV

Date/Time/Personnel Casing Painted 10/21/87 1545 DAW & WTV

Date/Time/Personnel Numbers Painted 10/28/87 1520 WTV

Materials Used 14 BAGS SICKETE

Top of Protective Casing to Top of PVC 0.50 ft. cm.

Top of Protective Casing to Weep Hole 1.17 ft. cm.

Top of Protective Casing to Internal Mortar 1.58 ft. cm.

Top of Protective Casing to Top of Cement Pad 1.85 ft. cm.

Top of Protective Casing to Ground Level 2.15 ft. cm.

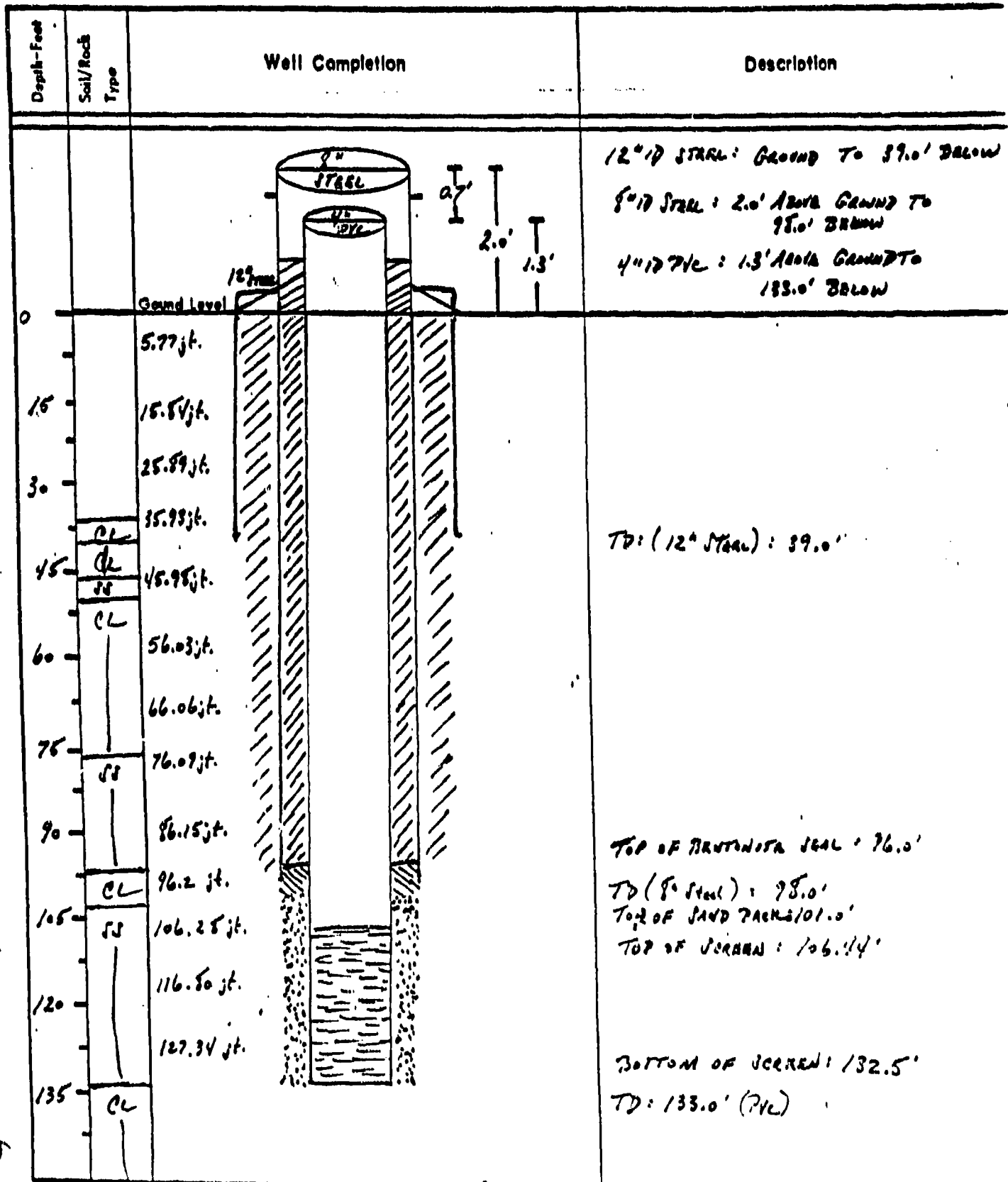
COMMENT/NOTES

Reviewed By J. Pans Date 12/8/87

Drill Site Geologist — Date —

Borehole: EP-65D2

Well: 34013



Drill Site Geologist: A. S. Gistells

Reviewed By: [Signature]

Date: 10/15/87

Date: 1/17/88

WELL DEVELOPMENT DATA

Bore EP-6522 Well 34013
Project REM - ON - POS
Date(s) Developed 10/26/87
Personnel (Name/Company) DW / ESE
WTV / RSE
Rig Used ESE WITH SERVICE TANK
Pump (Type/Capacity) CRWDPOS 20 GPM
Bailer (Type/Capacity) N/A
Water Source RMA
Measured Well Depth TOC (Initial) 134.6 ft.
(Final) 134.41 ft.

Project Number TISK 44
Date Installed 10/14/87
Well Diameter (I.D.) 4 in.
Anulus Diameter 16 1/4 in. 0 ft. to 39 ft.
11 3/4 in. 39 ft. to 79 ft.
Screen Interval 106.44 ft. to 132.5 ft.
Casing Height (Above G.L.) 1.3 ft.
Bottom of Screen (Below G.L.) 132.5 ft.

Water Level TOC/Date/Time (Initial) 48.3 / 10-26-87 / 1500
(after 24 hrs.) 48.49 / 11-2-87 / 1320

Feet of Water in Well 86.3 ft. x 0.653 gallons/foot = 56.35 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons
Purge Water Lost N/A gallons
Added Water 0 gallons
Casing/Anulus Volume 56.4 gallons
One Purge Volume 85 gallons
Minimum Purge Volume 425 gallons
Total Purge Volume 765 gallons
Volume Measured By SS 442 - DAW
Surge Technique RAISE / LOWER - DUMP

Calibration: pH Meter Used: BECKMAN 0 21 SN: 015833
pH 7.00 = 7.02 at 17.3 °C, pH 10.00 = 10.09 at 17.7 °C
Conductance Meter Used: YSI MODEL 32 ESE #2
Standard 1413 umhos/cm at 25°, Reading 1414 umhos/cm at _____ °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
5 gal.	1540	13.6	11.79	1741	cloudy w/ gray with no bentonite. great, some fine sand.
85 gal.	1547	13.6	11.42	901	partly cloudy w/ some fine sand.
170 gal.	1555	13.4	11.09	506	partly cloudy
255 gal.	1604	13.5	10.31	493	partly cloudy, some fine sand
340 gal.	1614	13.3	10.24	383	partly cloudy
Final					
425 gal.	1621	13.0	10.21	365	partly cloudy, some fine sand

Remarks: Initial NWA (TOC) = 0.0 ppm Wall was "pre-developed" on 10/14/87 532 ft. below
* Final NWA (TOC) = 7.3 48 TO 135 ft. pumped.

44 Purge vol. = 56.4 (casing vol.) + 26.1 (sand vol.) = 82.5 gallons
Bottom of screen = 132.5
To 1st sand = 101.0
To 2nd sand = 71.5
Collected by [Signature] Date 10/26/87
Checked by [Signature] Date 10/26/87
Sand vol. = 26.1 ft x 0.352 gal/ft = 26.1 gallons

WELL DEVELOPMENT DATA

Project ORMA ON-POST Bore EP-65 D2 Well 34013
 Project Number 7454 44
 Date(s) Developed 12/29/87 Date Installed 10/14/87
 Personnel (Name/Company) WTV/ISE Well Diameter (I.D.) 4 in.
 Anulus Diameter 10 1/4 in. 0 ft. to 37 ft.
 Screen Interval 12 3/4 in. 37 ft. to 53 ft.
 Screen Interval 106.4 ft. to 132.5 ft.
 Casing Height (Above G.L.) 13 ft.
 Bottom of Screen (Below G.L.) 132.5 ft.
 Rig Used ECR WELL SERVICE TRUCK
 Pump (Type/Capacity) GRANDPRAIS 120 GPM
 Bailer (Type/Capacity) N/A
 Water Source KMA
 Measured Well Depth TOC (Initial) 134.6 ft.
 (Final) 134.4 ft.
 Water Level TOC/Date/Time (Initial) 48.3 / 10-26-87 / 1500
 (after 24 hrs.) 48.49 11-2-87 1320
 Feet of Water in Well 86.3 ft. x 0.653 gallons/foot = 56.35 gallons casing/anulus volume
 Drilling Fluid Lost N/A gallons ** One Purge Volume 15 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 425 gallons
 Added Water 0 gallons Total Purge Volume 765 gallons
 Casing/Anulus Volume 56.4 gallons Volume Measured By SS BROWN DREW
 Surge Technique RAISE/LOWER PUMP
 Calibration: pH Meter Used: RECKMAN 614 SN: 045883
 pH 7.00 = 7.01 at 21.3 °C, pH 10.00 = 10.04 at 21.3 °C
 Conductance Meter Used: YSI MODEL 32 ISE #2
 Standard 1413 umhos/cm at 25°, Reading 25 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 425	1132	14.5	10.91	465	cloudy w/ grey silt & fine sand
510	1140	14.4	10.48	445	partly cloudy w/ fine grey silt
595	1148	14.3	9.93	402	partly cloudy w/ very fine grey silt
680	1157	14.3	9.61	370	partly cloudy w/ fine grey silt
765	1205	14.2	9.74	392	partly cloudy w/ fine grey silt
Final					

Remarks: Water level = 48.55 Well was "pre-developed" on 10/11/87 ~ 600 Gallons purged
Initial "Pre-Develop" (900):
12 INCH ANULUS 2.0 = 73.98 TO 135.00
 ** 1 Purge Vol: 56.4 casing vol
+ 20.8 sand purged.
83.2 ~ 95 gallons.
 Collected by [Signature] Date 12/29/87
 Checked by [Signature] Date 3/1/88

EP-66

BOREHOLE SUMMARY LOG

Borehole EP-66 Well 03012
Project Name and Location RMA Section 34 M.W. Indefinite Project Number T44
Drilling Company Boyle Bros Driller B. Roach Rig Number Fairley 500
Drilling Method(s) continuous core

Size(s) and type(s) of bit(s) 3 7/8" tri-cone, 12 1/4" Auger
Borehole Diameter 12 1/4 in. 0 ft. 16.7 cm. to 16.7 ft. 160.0 cm.
3 3/4 in. 16.7 ft. 160.0 cm.

Sampling Methods core

Total Number Soil Sampling Tubes —

Total Number Core Boxes 14

Number of Gallons Lost Drilling Fluid —

Date/Time Started Drilling 8/12/87 0754

Date/Time Completed Drilling 8/17/87 0856

Total Borehole Depth 160 ft. — cm.

Depth to Bedrock 13.7 ft. — cm.

Depth to Water — ft. — cm.

Water Level Determined By? —

Borehole Completed as Monitoring Well? No

Date/Time Grouting Completed 8/18/87 0759

Depth of Tremmie Pipe 155'

Gallons of Grout 140

Materials Used 10 bags of cement, 150 gal H₂O, 1 bucket bentonite

Comments grouted to ground surface

Wellsite Geologist Steve Pans

Checked for Grout Settlement on 9/16/87

by Steve Pans

Amount of Grout Added none - grout at ground surface

All Measurements from Ground Level

Reviewed by [Signature]

Date 9/16/87

Drill Site Geologist [Signature]

Date 9/16/87

Borehole: EP-66

Well Number: 03012

SOILS LOG					
Depth - feet	Tube Number	Recovery	Sample Number	Sample Interval	Unified Soil Classification
1	1	0.0' - 2.0'	109		SM
2					SM
3	2	2.0' - 4.0'	210		
4					
5	3	4.0' - 6.0'	212		
6					
7	4	6.0' - 8.0'	210		SC
8					
9	5	8.0' - 10.0'	212		
10					
11	6	10.0' - 12.0'	217		

Silty SAND, 20% silt, fine to coarse grained sand, 10YR 4/3, dark brown, dry, very loose, non plastic

Silty SAND, 15% silt, fine to coarse grained SAND, 10YR 5/6, yellowish brown, dry, loose, non plastic

Clayey SAND, 30% clay, fine to coarse SAND, 10YR 6/6, Brownish yellow, moist, medium dense calcareous stringers and nodules, low plastic

Drill Site Geologist: Henry Gies

Date: 5/12/87

Reviewed By: [Signature]

Date: 5/11/87

Borehole: EP-46

Well Number: 03012

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
11	6 10.0' - 12.0'	2.0' 2.0'			SC	clayey SAND (see pg. 1) ↓
12					CL	Clay, 30% sand, fine to very coarse grained, 5% small gravel, 10YR 8/2, white, medium stiff, moist, medium plastic, very calcareous
13	7 12.0' - 14.0'	2.0' 2.0'			CL	Clay w/ medium to coarse elastone cherts, 10YR 6/6, brownish yellow, very stiff, moist, medium plastic, calcareous nodules
14						
15	8 14.0' - 16.0'	2.0' 2.0'				SANDSTONE Bedrock, 20% silt, w/ laminated clay lenses 10YR 5/6 yellowish brown, 3% carbon fragments, 5% mica, calcareous stringers ↓ ↓ ↓
16						TOTAL DEPTH 16.0'

Drill Site Geologist: Steve Pans

Date: 7/12/87

Reviewed By: [Signature]

Date: 7/15/87

BOX no.	DEPTH ft.	Reg. Int.	Width U S	Structure / Bedding		Hard- ness S	Perm.		Mineralogy		Color (M) G	Texture / Grain Size clst ad gr mm	Lith. Char.	Lith. Class.	Description / Comments Ft CM (Scale 1" = <u>2</u> ft)
				Angle	Desc.		1°	2°	Min.	Habit					
	16'														bedrock at 13.7 Casing set to 15.7 Begin coring 16'
	17'														
	18'														
	19'														
	19.5'														
	20'														
	21'														
	22'														
	23'														

ESE, Inc. BORE EP-66 WELL(S)

See

Sampling Log

Coarse
bandingFeOx
crystals
on
fractures2542
S4
light
olive
brown

SS

SANDSTONEComposed of 90% rounded
lithic olige chstone fragments
(to 1/2") weak alignment

Laminated

massive

dbr
5%S4
6/3
pale
olive

CS

claystone

massive

FeOx
stainsS4
6/1
grey
S4
6/2
lt.
olive
grey

ST

Siltstone - weakly cementedfinely
bedded

CL

claystone

BOX NO.	DEPTH Feet Int.	Mudst.	Structure/ Bedding		Hard- ness	Perm.			Mineralogy		Color (M) G	Texture/ Grain Size clst ad gr mm .01 1.0 100	Lith. Char.	Lith. Class	Description/Comments CM (Scale 1" = <u>2</u> ft)
			Angle	Desc.		1°	2°	H	Min.	Habit					
		U S			S	H	L	H							
	25										5Y 6/2 12 olive gray			CL	CLAYSTONE
	26														
	27														
①	28														
	29														
	30														
	31														
	32														
	33														

SE, Inc. BORE EP-66 WELL(S) _____

finely
bedded

MACUL 95°

Fe Ox
stain

6%
obv
gray

Fe
partings

5YR
5/3
Olive

26.2'

26.2'
CS

CLAYSTONE

31'

continuous Fe stains and
Fe partings

BOX no.	DEPTH Feet	Reg. Int.	Width		Structure/ Bedding		Hard- ness		Perm.		Mineralogy		Color	Texture/ Grain Size			Lith. Char.	Lith. Class	Description/Comments
			U	S	Angle	Desc.	S	H	1°	2°	Min.	Habit		clst	ed gr	mm			
	45					Massive						FeX	2.5Y 4/0 dark grey				20% Si H	CS	CLAYSTONE
	46					finely bedded							10YR 3/3 dark brown						
	47					Massive							10YR 5/6 yellowish brown				47' 50% MUSCL	SS	SANDSTONE
	48											3% cbn frag							
③	49																		
	50																		
	51																		
	52																		
	53																		

Washly cemented from
50-52'

SE, Inc. BORE EP-66 WELL(S) _____

BOX NO.	DEPTH	Reg. Int.	Mason.	Structure / Bedding		Hard-ness	Perm.		Mineralogy		Color	Texture / Grain Size	Lith. Char.	Lith. Class	Description / Comments
				Angle	Desc.		1°	2°	Min.	Habit		clst ed gr mm			
				U	S	S	H	L	H	L	M	G	.01	1.0	100
	54										10TR s/3 brown			SS	SANDSTONE weakly cemented
	55														
	56														
	57														
	58														
	59														
	60														
	61														
	62														
	63														

ESE, Inc. BORE EP-66 WELL(S)

BOX NO.	DEPTH	REG. INT.	Mudm.	Structure / Bedding		Hardness	Perm.		Mineralogy		Color	Texture / Grain Size			Lith. Char.	Lith. Class	Description / Comments
				Angle	Desc.		1°	2°	Min.	Habit		clst	sd	gr			
												.01	.10	100			CM (Scale 1" = _____)
	64				medium ^{SP} finely bedded						10YR 5/3 brown					CS	claystone
	65																
	66									numerous Fe parting surfaces to core axis	10YR 5/3 brown				20% cl.	SS	SANDSTONE, well cemented
	67																
	68										10YR 6/2 H ₂ O brownish grey				30% claystone clasts up to 1/2"		
④	69				medium												
	70																
	71										10YR 5/6 yellowish brown				50% CS clasts	SS	SANDSTONE (clastic) (claystone clasts)
	72																
	73										2.5Y 2/0 black						
																	oxidation boundary
																	Siltstone siliceous

WELL(S)

BORE EP-66

E, Inc.

BOX no.	DEPTH Feet	Reg. Int.	Weather	Structure/ Bedding		Hard- ness	Perm.			Mineralogy		Color (M) G	Texture/ Grain Size clst ad gr mm			Lith. Char.	Lith. Class	Description/Comments	
				Angle	Desc.		1°	2°		Min.	Habit		.01	1.0	100				
	74				massive							25Y 2/0 black							
	75										clay silt stone					10% silt	75' CS		CLAYSTONE
	76																		
	77										clay strings								
	78																		
	79																		
5	80				irregular bedding					5% clay frag		10YR 6/1 grey				80' ST			Siltstone
	81																		
	82				massive														
6	83									5% clay frag		10YR 6/1 grey				82 ST			SANDSTONE weakly cemented

BOX NO.	DEPTH	Reg. Int.	Mouth	Structure / Bedding		Hardness	Perm.		Mineralogy		Color		Texture / Grain Size	Lith. Char.	Lith. Class	Description / Comments
				Angle	Desc.		1°	2°	Min.	Habit	M	G				
84			U S		massive										SS	Sandstone
85																
86																
87																
88																
89					massive											
90																
91																
92					finely bedded											
93																
94																

10%
2/1
black

finely interbedded with silt

SS

Claystone waxy (glossy)

6% clay fragments

25% s/o grey

SS

Siltstone

interbedded with CS

93% 20% silt

CS

Claystone

ESE, Inc. BORE EP-66 WELL(S)

[illegible]

BOX no.	DEPTH ft.	U	S	Structure/ Bedding		Hard- ness	Perm.		Mineralogy		Color	Texture/ Grain Size classified gr mm	Lith. Char.	Lith. Class	Description/Comments
				Angle	Desc.		1°	2°	Min.	Habit					
						S	HL	HL	H		(M) G	.01 1.0 100		FI	CM (Scale 1"= _____ ft)
	104				MASSIVE						5Y 4/1 dark grey			CS	Claystone
	105				↓										
	106														
	107				MASSIVE									St	Siltstone
	108				↓										
	109				MASSIVE CS with thin beds of siltstone									CS	Claystone with thin interbeds of siltstone
	110														
	111				Finely bedded (irregular)						5Y 6/1 grey			St	Siltstone
	112				Finely bedded (irregular)									SS	Sandstone with interbeds with siltstone
	113				↓									St	Sandstone interbedded with claystone

SE, Inc. BORE EP-66 WELL(S) _____

BOX NO.	DEPTH Feet Int.	Neom. U S	Structure / Bedding		Hard- ness S	Perm.		Mineralogy		Color (M) G	Texture / Grain Size elst ad gr mm	Lith. Char.	Lith. Class FI	Description / Comments CM (Scale 1" = _____ ft)
			Angle	Desc.		1° H L	2° H L	Min.	Habit					
	115			finely bedded irregular				7% con Fm		5Y 6/1 gray			St	Siltstone, finely interbedded with claystone
	116													
	117			bedded						black				lignite seam, sandy shale
	117.3			massive						2.5Y 3/0		20% SiH	CS	claystone
	118			irregular bedded						dark gray			St	Siltstone w/occ thin lenses of claystone
	119							10% con Fm		5Y 7/1 lt. gray				
	120													
	121													
	122													
	123			finely bedded						5Y 3/1 very dark gray			SS	SANDSTONE heavily cemented

ESE, Inc. BORE EP-66 WELL(S) _____

(BOX NO.)	DEPTH	Res Int.	Wells	Structure/Bedding		Hardness	Perm.			Mineralogy		Color	Texture/Grain Size clst sd gr mm .01 .10 100	Lith. Char.	Lith. Class	Description/Comments
				Angle	Desc.		S	H	L	H	L					
				U	S											
	125										5% Cbn	SP 4/1 dark gray			SS	SANDSTONE
	126	49/50														
	127															
	128															
	129															
	130	45/45														
	131															
	132	39/41									50% Cbn Frag					
	133															

90X no.	DEPTH Feet	Rtg. Int.	Weather U S	Structure/ Bedding		Hard- ness	Perm.		Mineralogy		Color M G	Texture/ Grain Size clst ad gr mm	Lith. Char.	Lith. Class	Description/Comments
				Angle	Desc.		1°	2°	Min.	Habit					
						S	HL	HL	H			.01 1.0 100			
	135				Massive						2.5 2/0 black		134.3	CS	Siltstone
	136														
	137														
	138				Fine bedded						2.5 3/0 v. dark grey		137.5	St	Siltstone
	139				Massive								139	SS	SANDSTONE well cemented
	140				Fine bedded								139.5	St	Siltstone
	141				Massive						2.5 2/0 black		140	CS	claystone
	142				Fine undulating bedded						2.5 4/0 dark grey		141	St	Siltstone
	143														

ESE, Inc. BORE EP-66 WELL(S)

(12)

4.3
5

BOX no.	DEPTH Feet	Width U S	Structure/ Bedding		Hard- ness S H L	Perm. 1° 2°		Mineralogy		Color M G	Texture/ Grain Size clst ed gr mm	Lith. Char.	Lith. Class Ft	Description / Comments CM (Scale 1" = <u>2</u> ft)
			Angle	Desc.		H L	H	Min.	Habit					
	145			V. irregular bedding (concave structure)						2.5Y 4/10 dark gray			ST	Siltstone
	146			Massive						2.5Y 2/10 black		146' 10% fine quartz white spars	CS	claystone
	147													
	148													
	149													
	150													
	151													
	152													
	153			blocky structure										

ESE, Inc. BORE EP-66 WELL(S) _____

[illegible]

**Lakewood, Colorado**

99-37

AR

ADAMS COUNTY

Inventory

COLORADO

Discussion

Ground Level

THE

T O. Logged

155 Fr

Natural Gamma

200 Scale- 20

505

3

THE ALMA MATER

●

103-1421

“ $\frac{1}{2}$ —1+”

$$x_5 = \frac{3}{4}, \frac{1}{4}$$
[illegible]

100-2-87

Wieder Fuchse

$\frac{3}{8}$

59

1

200 ohms/5"

12

20 MV/Inch

True Vertical	Survey Depth
---------------	--------------

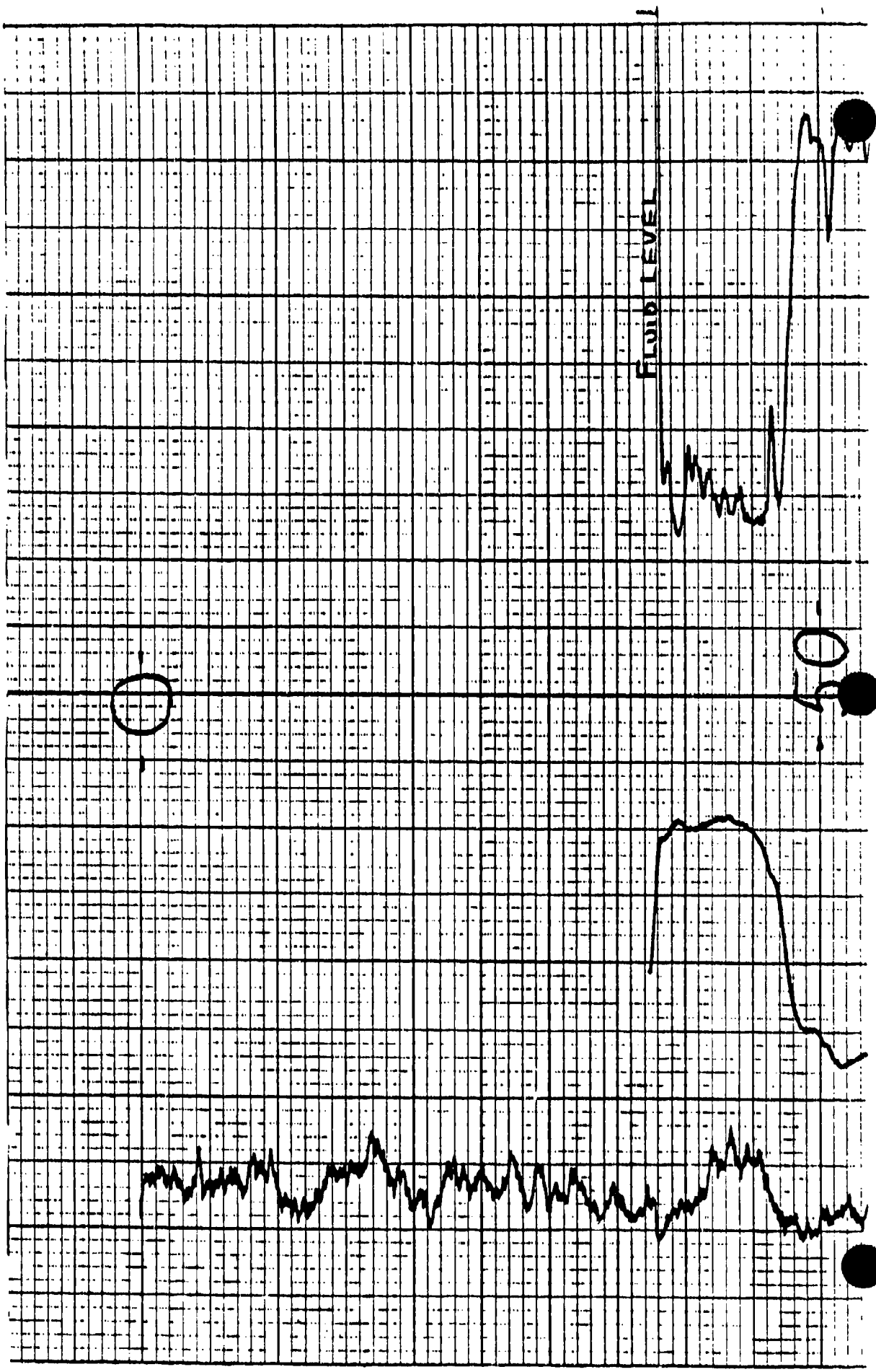
Time Vertical

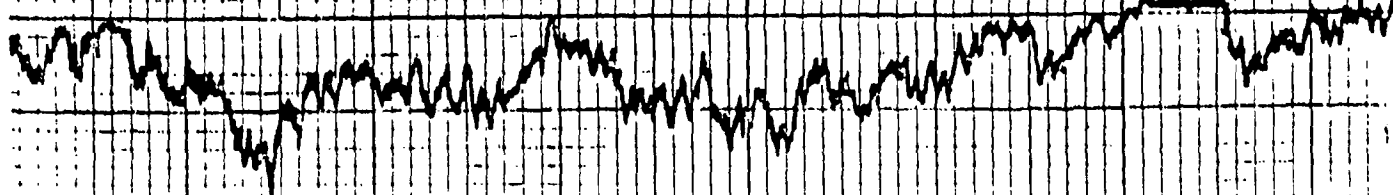
17

10

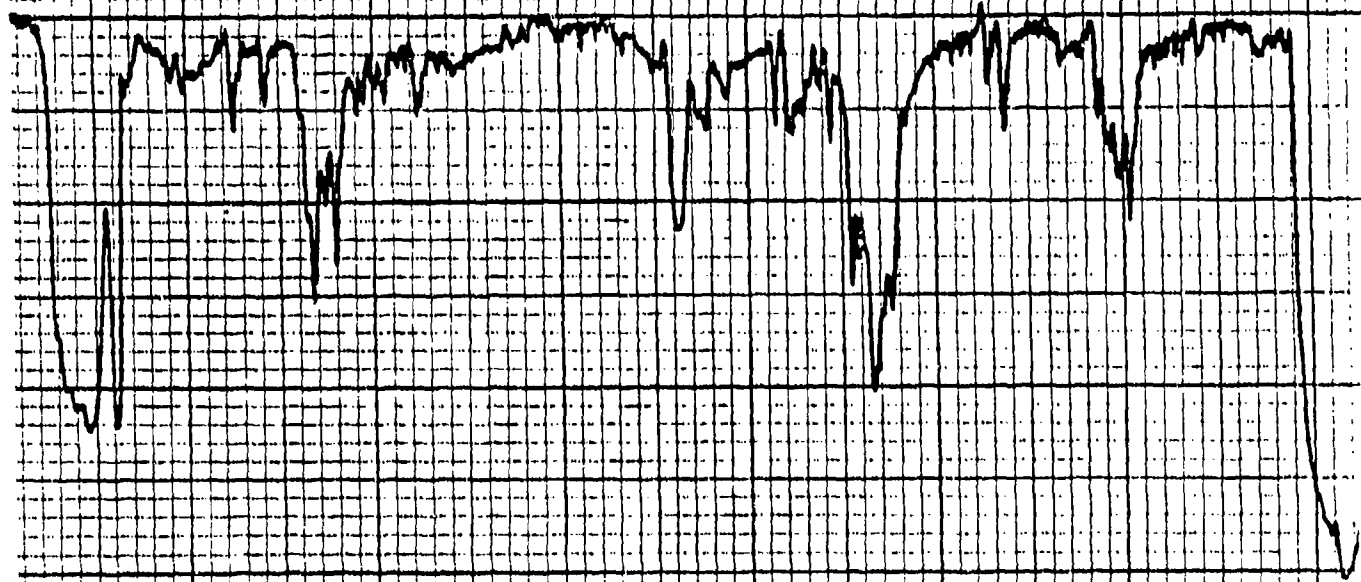
[REDACTED]

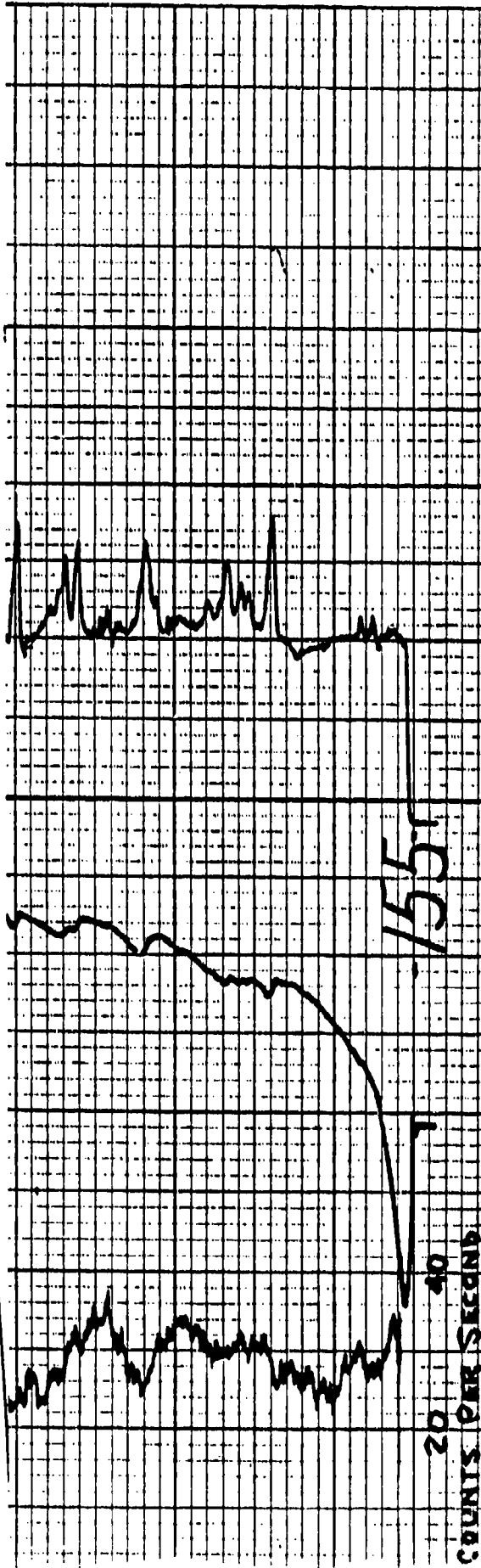
NATURAL GAMMA
 20 cps
 S.P.
 20 mv
 +
 DISTANCE
 200
 0.005 5 inches





100





NATURAL

S.P.

RESISTANCE

GAMMA

20 MV/INCH

200 OHMS/5 INCHES

EP 66

WELL CONSTRUCTION SUMMARY

Borehole EP-6671 Well 03012
Project Name and Location RMA TAIL 44, N^o 1/4 Sect. 3 Project Number _____
Drilling Company Baylor Bros. Driller Don Larive Rig Number TR
Drilling Method(s) Rotary wash

Borehole Diameter 12 1/4 in. _____ cm. _____ 0 ft. _____ cm. to 19 ft. _____ cm.
7 7/8 in. _____ cm. _____ 19 ft. _____ cm. to 63 ft. _____ cm.

Size(s) and types of Bit(s) 12 1/4, 7 7/8
Blade Bits

Size and Type PVC 4" ID Sch 40

Total Borehole Depth 63 ft. _____ cm.

Depth to Bedrock 13.7 ft. _____ cm.

Depth to Water _____ ft. _____ cm.

Water Level Determined By _____

Length Plain PVC (total) 46.29 ft. _____ cm.

Length of Screen 16.21 ft. _____ cm.

Total Length of Well Casing 62.50 ft. _____ cm.

PVC Stick Up 1.50 ft. _____ cm.

Depth to Bottom of Screen 60.50 ft. _____ cm.

Depth to Top of Screen 44.96 ft. _____ cm.

Depth to Top of Sand 40.0 ft. _____ cm.

Depth to Top of Bentonite 34.0 ft. _____ cm.

Sampling Method(s) Previously used

Date/Time Start Drilling 10/16/87 1410

Date/Time Finish Drilling 10/16/87 0915

Date/Time Start Completion 10/16/87 0920

Date/Time Cement Protective Casing _____

Materials Used _____

Plain PVC 46.29'

Slotted PVC 16.21'

Bentonite Pellets 2 buckets (100 lb.)

Bentonite Grapular 8 1/2 bags (40 lb.)

Cement 8 bags (720 lb.)

Sand 3.5 bags (350 lb.)

Water added during completion 0

Water added during drilling 30 gal. (est.)

Total Gallons of water added 30 gal

Drill Site Geologist A.E. Ostelli

Date 10/16/87

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 10/21/87 1230 D.W. & WTV

Date/Time/Personnel Casing Painted 10/26/87 1430 D.W. & WTV

Date/Time/Personnel Numbers Painted 10/28/87 11000 WTV

Materials Used 13 BAGS CEMENT

Top of Protective Casing to Top of PVC 12.30 ft. _____ cm. COMMENT/NOTES

Top of Protective Casing to Weep Hole 1.15 ft. _____ cm.

Top of Protective Casing to Internal Mortar 1.64 ft. _____ cm.

Top of Protective Casing to Top of Cement Pad 1.78 ft. _____ cm.

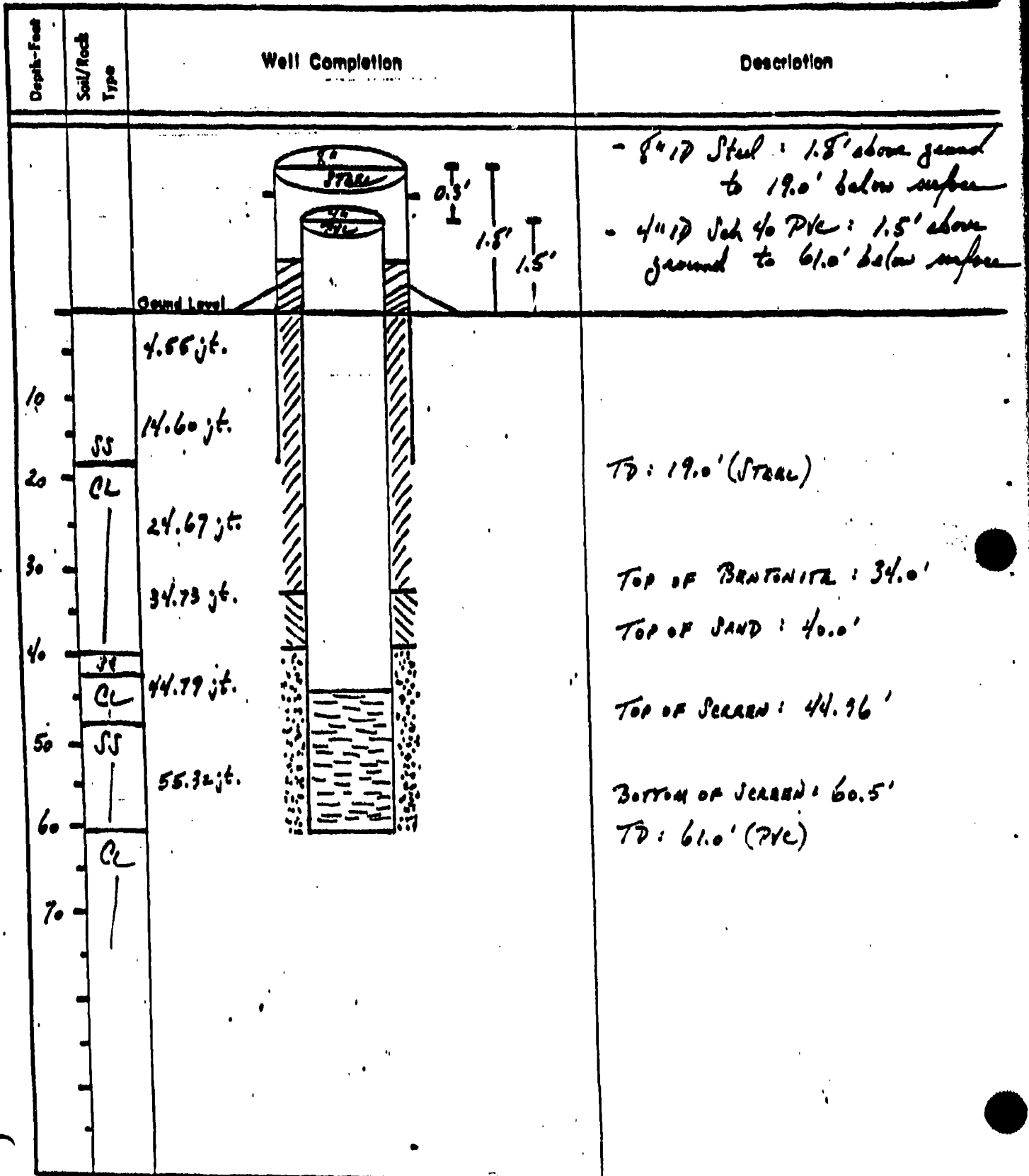
Top of Protective Casing to Ground Level 1.78 ft. _____ cm.

Reviewed By [Signature] Date 31-1/88

Drill Site Geologist _____ Date _____

Borehole: EP-66 D1

Well: 03012



Drill Site Geologist: A.E. Dittali
Reviewed By: [Signature]

Date: 10/16/87
Date: 2/17/88

WELL DEVELOPMENT DATA

Bore EP-66 D1 Well 03012

Project RWA ON-POST Project Number TATRA 44

Date(s) Developed 10/29/87 Date Installed 10/16/87

Personnel (Name/Company) DW/ISE Well Diameter (I.D.) 4 in.

WTV/ISE Anulus Diameter 17.4 in. 0 ft. to 19 ft.

Rig Used FCE WEL SERVICE TRUCK 7.3 in. 19 ft. to 63 ft.

Pump (Type/Capacity) GRUNDFOS 20 gpm Screen Interval 44.96 ft. to 60.5 ft.

Bailer (Type/Capacity) N/A 1 ft. to 1 ft.

Water Source RWA Casing Height (Above G.L.) 1.50 ft.

Measured Well Depth TOC (Initial) 62.54 ft. 62.49 Bottom of Screen (Below G.L.) 60.5 ft.

(Final) 62.50 ft.

Water Level TOC/Date/Time (Initial) 39.04 / 10-29-87 / 0820

(after 24 hrs.) 39.01 / 11-2-87 / 1310

Feet of Water in Well 23.65 ft. x 0.653 gallons/foot = 15.44 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 62.4 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 314.5 gallons

Added Water 30 gallons Total Purge Volume 440 gallons

Casing/Anulus Volume 15.44 gallons Volume Measured By SS below pump

Surge Technique RAISE/WAIT/PUMP

Calibration: pH Meter Used: BROWN MON #21 SN: 05583

pH 7.00 = 7.02 at 19.2 °C, pH 10.00 = 10.08 at 19.1 °C

Conductance Meter Used: T65 MODEL 32 ESE #2

Standard 1417 umhos/cm at 25°, Reading 1412 umhos/cm at 21 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 5 GAL.	0842	15.0	9.89	373	muddy w/ brown silt & fine sand.
65 GAL.	0859	14.2	7.79	384	very cloudy w/ brown silt & some fine sand.
130 GAL.	0910	13.5	7.34	894	cloudy w/ brown silt, some fine sand.
195 GAL.	0918	13.3	7.47	417	cloudy w/ brown silt & some fine sand.
260 GAL.	0924	13.5	7.78	452	cloudy w/ brown silt; some sand.
Final 325 GAL.	0930	13.6	7.11	459	cloudy w/ brown silt & fine sand.

Remarks: TEMPERATURE READING (PHE) = 10.9 gpm

Sandpack = Bot of Screen = 60.5 ft
= Top of Sand = 40.0
20.50 ft.

Sandpack vol. = 20.50 ft x .652 gal/ft = 13.46 gal.

Collected by [Signature] 10/29/87 Date

Checked by [Signature] Date

* 1 Purge vol. = 15.44 casing vol.
= 17.46 sand pack vol.

WELL DEVELOPMENT DATA

Bore EP-66 D1 Well 03012

Project RMP ON - POST Project Number THSL 44

Date(s) Developed 10/29/87 Date Installed 12/14/87

Personnel (Name/Company) DLW / SSE Well Diameter (I.D.) 4 in.

WTV / SSE Anulus Diameter 12 1/2 in. 0 ft. to 14 ft.

Rig Used SSE WELL SERVICE TANK Screen Interval 7 1/2 in. 14 ft. to 63 ft.

Pump (Type/Capacity) GRUNDOS / 26 GPM 44.96 ft. to 60.5 ft.

Bailer (Type/Capacity) N/A ft. to ft.

Water Source QMA Casing Height (Above G.L.) 1.50 ft.

Measured Well Depth TOC (Initial) 62.49 ft. Bottom of Screen (Below G.L.) 60.5 ft.

(Final) 62.50 ft.

Water Level TOC/Date/Time (Initial) 39.04 / 10-24-87 / 0520

(after 24 hrs.) 39.01 / 11-02-87 / 1310

Feet of Water in Well 23.65 ft. x 26.53 gallons/foot = 15.44 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons * One Purge Volume 12.9 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 314.5 gallons

Added Water 30 gallons Total Purge Volume 440 gallons

Casing/Anulus Volume 15.44 gallons Volume Measured By SS GIL. DUM

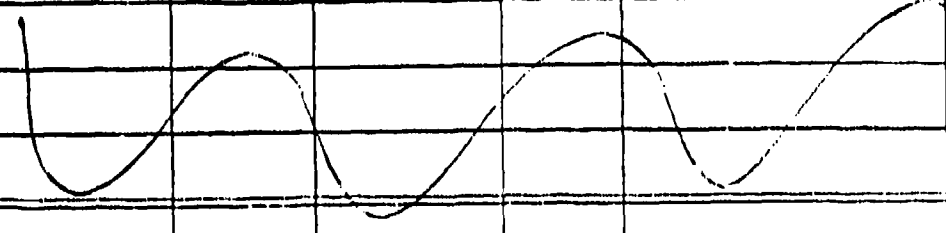
Surge Technique RAISE / LOWER RMP

Calibration: pH Meter Used: Beckman 421 SN: 015893

pH 7.00 = 7.02 at 19.1 °C. pH 10.00 = 10.07 at 17.5 °C

Conductance Meter Used: YSI model 32 266 #2

Standard 1413 umhos/cm at 25°, Reading 1412 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 390	0935	13.4	7.22	970	partly cloudy w/ some brown fine sand/silt
440	0941	13.7	7.31	971	partly cloudy w/ some brown fine am. sand
					
Final					

Remarks: Recalibrated pH meter @ 400 gallons - hit slope bottom instead of pH bottom.

* 1 Purge vol. = 15.44 casing vol.
+ 17.46 sand pack vol.
+ 300 added water
62.9 ≈ 65 gallons.

Collected by [Signature]

Checked by [Signature]

Signature

Signature

10/29/87

Date

Date

EP-67

BOREHOLE SUMMARY LOG

Borehole EP-67 Well _____

Project Name and Location RMA Project Number _____

Drilling Company Boyle Bros Driller Bob Roach Rig Number Fairing 1500

Drilling Method(s) rotary core

Size(s) and type(s) of bit(s) _____

Borehole Diameter 7 7/8 in. _____ cm. 0.0 ft. _____ cm. to 35.0 ft. _____ cm.
3 3/4 in. _____ cm. 35.0 ft. _____ cm. to 181.0 ft. _____ cm.

Sampling Methods continuous core

Total Number Soil Sampling Tubes _____

Total Number Core Boxes 10

Number of Gallons Lost Drilling Fluid _____

Date/Time Started Drilling 10/15/87 1256

Date/Time Completed Drilling 10/20/87 0947

Total Borehole Depth 181.0 ft. _____ cm.

Depth to Bedrock 33.0 ft. _____ cm.

Depth to Water _____ ft. _____ cm.

Water Level Determined By? _____

Borehole Completed as Monitoring Well? no

Date/Time Grouting Completed 10/20/87 1340

Depth of Tremmie Pipe 180 0'

Gallons of Grout 174

Materials Used 12 bags of cement, 120 gal H₂O, 1.2 bags of bentonite

Comments grouted to ground surface

Wellsite Geologist John Paul Date 10/15/87

Checked for Grout Settlement on 10/25/87 by John Paul

Amount of Grout Added 10 gal to surface

All Measurements from Ground Level

Reviewed by Peter R. Lyness Date 5/16/88

Drill Site Geologist _____ Date _____

BOREHOLE SUMMARY LOG

Borehole EP 67 A Well 35087
Project Name and Location RMA T44 Well Installation Project Number 1705308110
Drilling Company Boyle Driller R. Muckey Rig Number 942
Drilling Method(s) 3 1/4" ID HS Auger

Size(s) and type(s) of bit(s) 3 1/4" ID HS Bit
Borehole Diameter 6 in. cm. ft. 0 cm. to 36.5 ft. cm.
 in. cm. ft. cm. to ft. cm.

Sampling Methods Polybuterate tubes in continuous samples

Total Number Soil Sampling Tubes 10

Total Number Core Boxes 2

Number of Gallons Lost Drilling Fluid None

Date/Time Started Drilling 11-11-87 / 1323

Date/Time Completed Drilling 11-11-87 / 1517

Total Borehole Depth 36.5 ft. cm.

Depth to Bedrock 36.5 ft. cm.

Depth to Water 32.5 ft. cm.

Water Level Determined By? Steel tube

Borehole Completed as Monitoring Well?

Date/Time Grouting Completed 11-11-87 / 1602

Depth of Tremmie Pipe 16'

Gallons of Grout 84 gal

Materials Used 5370 7 bags concrete 5/4 bag bentonite

Comments

Wellsite Geologist J. Wilkin Date 11-11-87

Checked for Grout Settlement on 11-12-87 by FW

Amount of Grout Added None

All Measurements from Ground Level

Reviewed by Steve Paul Date 3/17/88

Drill Site Geologist Date

Borehole: EP-67 A Well Number: _____

SOILS LOG
Description

Munsell Colors

Depth - feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	Description
0	0-2	100%		0-2		ML, sandy s.H., ~5% sand vfg 10YR 1/2 dk grayish brown loose, non-plastic, dry, Aluminum trace calcium carb
2	2-4'	100%		2-3'		↓ No RECOVERY 3-6'
4	4-6'	100%				
6	6-8.3	100%		6-8.3		ML, Sandy s.H., ~10% sand, 10YR 7/4 yellowish brown medium dense, non-plastic, dry, Aluminum w/ ~15% calcium carbonate 10YR 8/2 white.
8.3	8.3-10	100%				↓ No Recovery 8.3 to 10'
10	10-12	100%		10-12		ML, silty sand ~45% s.H., 10YR 4/3 brown dk brown, medium dense, non-plastic, trace Aluminum.
12						

Drill Site Geologist: [Signature] Date: 4/11/87

Reviewed By: [Signature] Date: 4/11/87

Borehole: EP 67A

Well Number: _____

SOILS LOG
Description

Murresell Colors

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	
12	11-12	2'		11-12		sm, silty sand, ~ 45% silt 10YR 4/4 dk. yellowish brown med. dense, non-plastic, v. moist, Alluvium
14	14-16	2'		14-16		↓ @ 14.3' med, sandy silt ~ 10% sand 10YR 5/4 light yellowish brown, med. dense, non-plastic moist, Alluvium w/ ~ 10% calcium carbonate 10YR 8/2 white.
16	16-18	0'				NO RECOVERY 16'-18'
18	18-20	2'		18-20		@ 18' Same as @ 16'
20	20-22	0'				NO RECOVERY 20 - 26 Augers plugged cuttings silty sand
22	22-24	0'				cuttings silty clay

Drill Site Geologist: [Signature]

Date: 11-11-81

Reviewed By: [Signature]

Date: 11/11/81

Borehole: EP 67 Well Number: _____

SOILS LOG						Description
Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	
						Munsell Colors
24	24-26	0'				Cuttings silty clay
26	26-28	0'				No Recovery 26-28 Clay ends @ 26' loose fine grained sand fell out of sampler
28	28-30	1'		28-30		@ 28' ^{3/4"} Fine grained sand, w/ 3/4" gravel sized pieces, 10% 4/3 brown, loose, non-plastic, moist Alluvium. @ 28.6' silty clay, 10% 5/3 brown, med. dense, slightly phs moist Alluvium
30	30-32	0'				No RECOVERY 30-32 29'-36.4' Clayey gravel cuttings
32	32-34	0'				
34	34-36.5	0.1'		34-36.5		@ 32.5 saturated gravelly sand
36						@ 36.4 weathered oxidized silty sand END OF BORTNG LOG

Drill Site Geologist: J. Wilken Date: 11-11-87
Reviewed By: [Signature] Date: 11/18/87

BOX NO.	DEPTH	App. Int.	Width	Structure / Bedding		Hardness		Perm.		Mineralogy		Color	Texture / Grain Size	Lith. Char.	Lith. Class	Description / Comments
				Angle	Desc.	S	H	1°	2°	Min.	Habit					
																CM (Scale 1" = <u>2</u> ft)
																<p>Box at 36'</p> <p>Bedrock at 33'</p> <p>Begin casing at 31'</p> <p>No recovery 31' to 42'</p>
	42				massive										CS	Claystone
														25% SAND	St	Siltstone
	44				irregular bedding											
					weak cleavage											
					massive											
	46														SS	SANDSTONE, medium grained, unconsolidated, friable. occasional claystone fragments.
	48															
	50														CS	Claystone, finely interbedded with lignite
	52				irregular bedding										St	Siltstone interbedded with claystone and sandstone
	54				shaly bedded											
	56														SS	No core recovered from 55 to 65' - cuttings indicated unconsolidated sandstone
	58															

ESE, Inc. CORE EP-67 WELL(S)

BOX NO.	DEPTH Feet	U.S.	Structure/ Bedding		Hard- ness	Perm.		Mineralogy		Color	Texture/ Grain Size clst. ad gr. mm	Lith. Char.	Lith. Class	Description/Comments
			Angle	Desc.		1°	2°	Min	Habit					
					S	H	L	H	L	M	G			
	60												SS	No Core recovered from 60" SS to 66.5"
	62													
	64													
	66													
	68			highly fractured 10/5'						SV 5/16 + olive gray N5/0 Dark gray			CS	Claystone 67.5 oxidation boundary
	70													
	72			massive thickly bedded						N4/0 med dark gray			SS	SANDSTONE, medium grained to v. coarse grained, massive
	74			massive						N5/0 Dark gray				20% small gravel size claystone clasts
	76												CS	Claystone
	78													

ESE, Inc. BORE EP-67 WELL(S)

BOX No.	DEPTH Feet	U	S	Structure/ Bedding		Hard- ness	Perm.		Mineralogy		Color	Texture/ Grain Size classified gr. mm	Lith. Char.	Lith. Class	Description/Comments
				Angle	Desc.		1"	2"	Min.	Habit					
						S	HL	HL	H		M	G		FI	CM (Scale 1" = 2 ft)
	80													CS	CLAYSTONE
(2)	82				massive				60% claystone		N13/0 dark gray		30% claystone		SANDSTONE, very coarse grained, moder. well cemented
	84				thinly bedded				30% claystone		N4/0 med dark gray		30% silt	CS	CLAYSTONE, silty, clayey
(3)	86				thinly bedded				50% claystone				30% silt	SS	SANDSTONE, v. silty, fine grained, well cemented, interbedded with siltstone
	88				massive				30% claystone		N2/0 grayish black			CS	CLAYSTONE
	90				massive				30% claystone		N3/0 medium gray			SS	SANDSTONE
	92				massive				30% claystone		N3/0 dark gray			CS	CLAYSTONE
	94				massive				30% claystone		N7/0 light gray		10% fine sand	ST	SILTSTONE
	96				thinly bedded										
	98				thinly bedded										

SE, Inc. BORE EP-67 WELL(S)

BOX NO.	DEPTH Feet	U	S	Structure / Bedding		Hard- ness		Perm.		Mineralogy		Color	Texture / Grain Size clst ad gr mm	Lith. Char.	Lith. Class	Description / Comments
				Angle	Desc.	S	HL	1°	2°	Min	Habit					
	100				v. fine bedded							N 1/2 med cl gray			St	Siltstone
④	102															
	104															
	106															
⑤	108				massive ↓ finely bedded											
	110				cherty banded											
	112															
	114															
	116				finely bedded to fossil											
	118				massive ↓ irregular bedded											
⑥	120															

ESE, Inc. BORE FP-67 WELL(S)

grain size increase
to v. coarse grainedprimarily chert
chertCLAYSTONE with thin
light lenses to 117'

sandy claystone

BOX No.	DEPTH Feet	Reg. Int.	U	S	Structure/ Bedding		Hard- ness		Perm.		Mineralogy		Color	Texture/ Grain Size clst. or gr. mm	Lith. Char.	Lith. Class	Description/Comments
					Angle	Desc.	S	H	1°	2°	Min.	Habit					
	120					irregular bedded upward filling massive					15% carb gray	1	N 3/0 Dark gray		30% sand	CS	Claystone,
	122											2			25% oil t		Dark sand
	124														25% oil t		
	126																
	128																
	130					finely bedded to cherty band							N 7/0 light gray		122.0'	27.8'	Siltstone
	132					massive					80% Quartz 25% kerolite		N 5/0 Medium gray		130.0'	SS	SANDSTONE, medium grained, mud, well cemented to sl. friable
	134																
	136																
	138																
	140					finely bedded							N 2/0 grayish blue		138.5'	CS	Claystone

ESE, Inc. BORE EP-67 WELL(S)

BOX NO.	DEPTH	Reg. Int.	U	S	Structure/Bedding		Hardness	Perm.			Min. ralogy		Color	Texture/Grain Size clst ad gr mm	Lith. Char.	Lith. Class	Description/Comments
					Angle	Desc.		1°	2°		Min	Habit					
							S	H	L	H			M	0.01 1.0 100		FI	CM (Scale 1" = 2 ft)
	140					massive							N30			CS	Claystone
(7)						↓							Dark gray				
	142					thin bedded							54.25 clay dr			142	LS
						massive							N510 med gray			142	CS
															10% clay	SS	Claystone, v. silty, sandy
	144															144.0	SS
															20% silt		Sandstone, fine grained, silty, well cemented
	146					irregular bedded with coarse sand filling					3% cbr						
	148																
(8)	150					fine & silty bedding									35% clay	SS	Siltstone, very clayey
	152					thin bedded to laminated					50% sand 10% mudstone		N410 med dark gray		30%	SS	Sandstone, fine grained mudstone well cemented to sh. friable, v. finely bedded with siltstone
	154																
	156																
(9)	158					folded with cherty laminae											

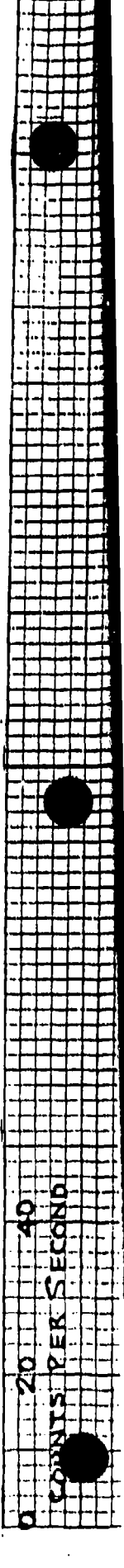
SE, Inc. BORE EP-67 WELL(S)

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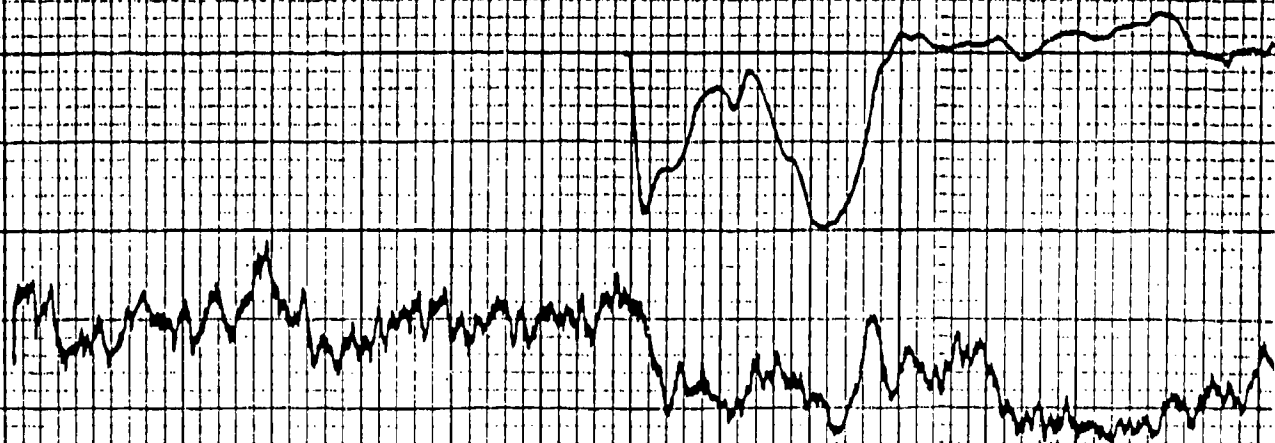
Company	ESE		Unit Depth	181 Ft	Unit No.	1015	105
Base line	EP-67		Drilling Date	3 7/8"	Unit No.	110	
Area Project	RMA		Drilling Date	36 Ft	Operator	Wm. Linton	
County	ADAMS COUNTY		Drilling Date	native mud	Location	Lokewood, CO	
Section			Drilling Date	Ground Level			

EQUIPMENT DATA		NATURAL GAMMA MEASUREMENTS (ANALOG)	
T.D. Logged	180 Ft	Scale	Scale
Natural Gamma	200 Scale = 20	TC	TC
Time Constant	2	Logging Speed	Logging Speed
Count Source	15	From	From
		Total	Total
Probe No.	103-1421	Gamma (Analog)	Density Source No
Probe Depth	15 1/8"	Gamma (Digital)	Type
Count Rate	2.38 x 10 ⁻⁵	Caliper	DPS/sec
Count Factor	1.10	Temperature	
Resistance		Directional Data	Neutron Source No
S.P.		Closure	Type
		Altitude	DPS/sec
		True Vertical	Survey Depth

NATURAL GAMMA
 S.P.
 - 20 cps - 10 MV +
 RESISTANCE
 - 100 - 100 OHMS/5 inches



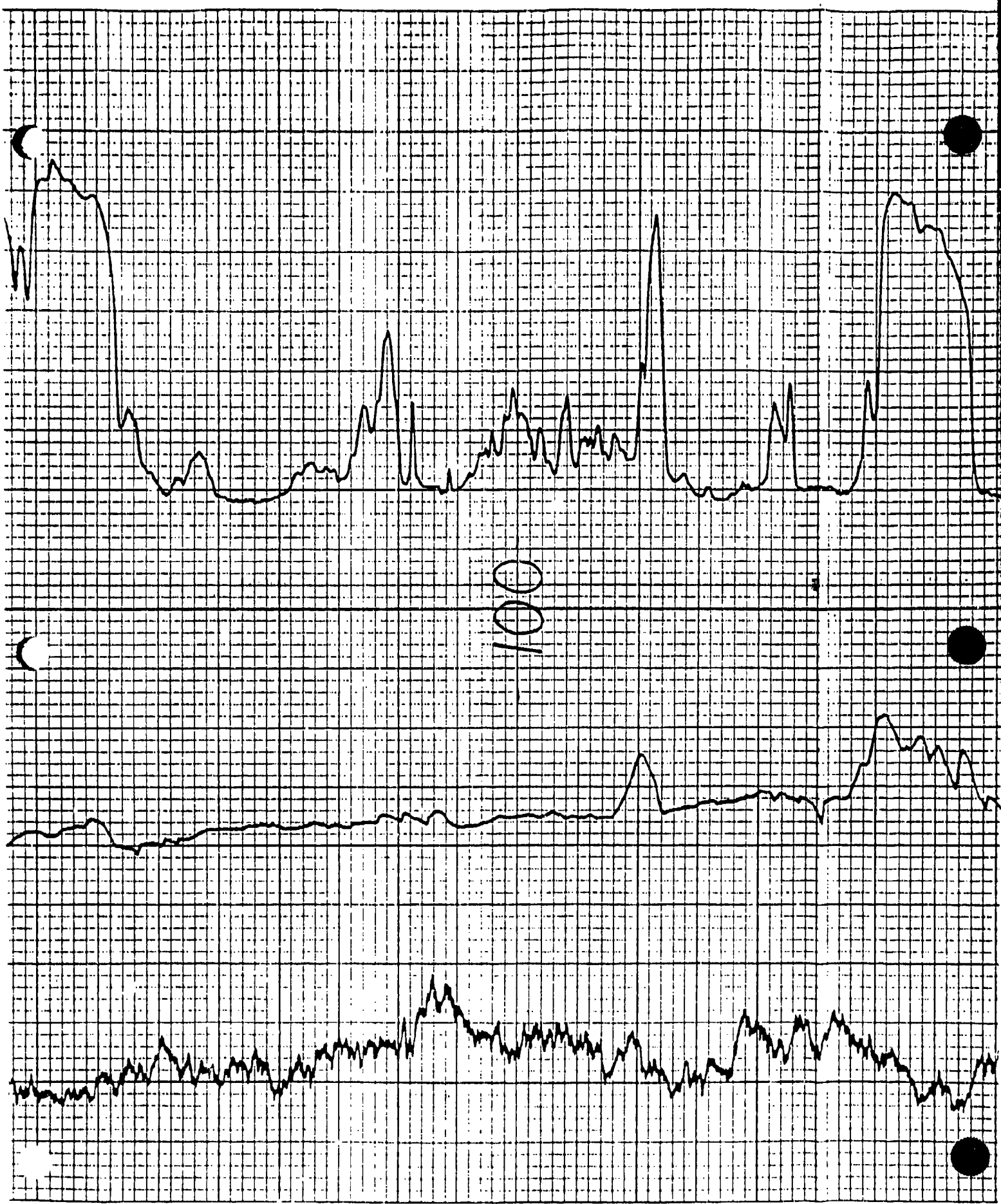
0 20 40
COUNTS PER SECOND

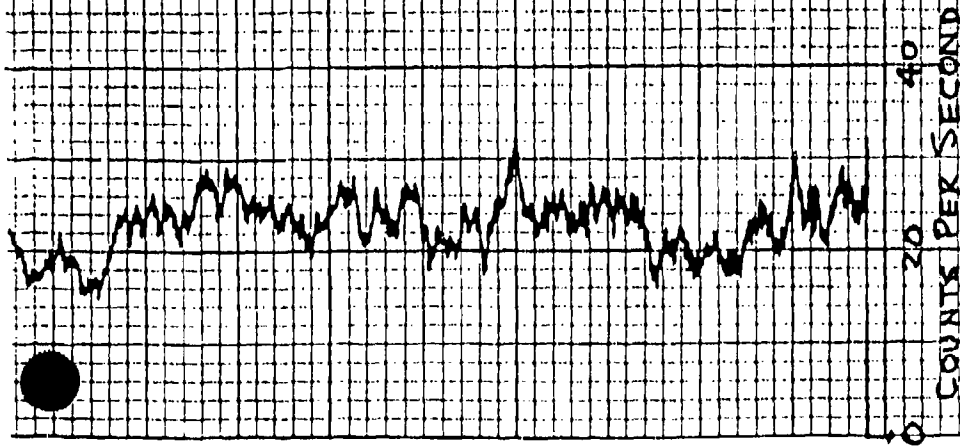


50

CASING

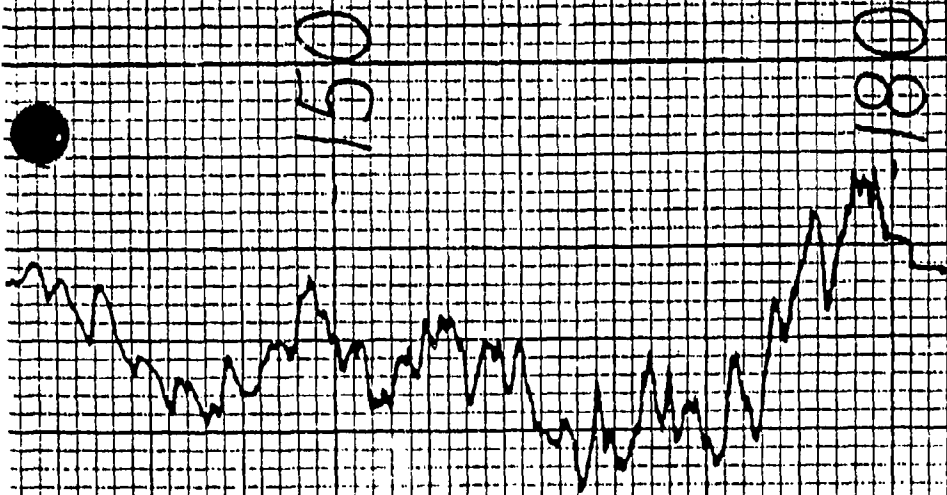






NATURAL

GAMMA



S.P.

10 MV/INCH



RESISTANCE

100 OHMS/5 INCHES

EP-67

WELL CONSTRUCTION SUMMARY

Borehole EP-67 Alluvial Well 35087
Project Name and Location RMA Monitor Well Inst. T44 Project Number T19
Drilling Company Boyles Bros. Driller Don Irvine Rig Number IR
Drilling Method(s) 12 1/4" OD HS Augers

Borehole Diameter 12 1/4 in. 0 ft. 38.1 cm. to 0 ft. 0 cm. to 0 ft. 0 cm.
0 in. 0 cm. 0 ft. 0 cm. to 0 ft. 0 cm.

Size(s) and types of Bit(s) 7 7/8" Center Bit

Size and Type PVC 4" Sch. 40 PVC

Total Borehole Depth 38.1 ft. 0 cm.

Depth to Bedrock 34.5 ft. 0 cm.

Depth to Water 34.1 ft. 0 cm.

Water Level Determined By Visual Taping

Length Plain PVC (total) 28.87 ft. 0 cm.

Length of Screen 10.95 ft. 0 cm.

Total Length of Well Casing 39.82 ft. 0 cm.

PVC Stick Up 1.7 ft. 0 cm.

Depth to Bottom of Screen 38.1 ft. 0 cm.

Depth to Top of Screen 27.15 ft. 0 cm.

Depth to Top of Sand 21.8 ft. 0 cm.

Depth to Top of Bentonite 17.6 ft. 0 cm.

Sampling Method(s) Not sampled - cutting Analysis

Date/Time Start Drilling 11-24-87 / 1040

Date/Time Finish Drilling 11-24-87 / 1353

Date/Time Start Completion 11-24-87 / 1353

Date/Time Cement Protective Casing 11-25-87 / 0034

Materials Used

Plain PVC 28.87

Slotted PVC 10.95 PE

Bentonite Pellets 5 (5 gal buckets) 250#

Bentonite Granular 23 bag (33#)

Cement 7 bags (650#)

Sand 9 bags (900#) 10-20

Water added during completion 10 gals

Water added during drilling None

Total Gallons of water added 10 gal

Drill Site Geologist Jon K. Wilson

Date 11-24-87

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 2/25/88 0900 SS RW

Date/Time/Personnel Casing Painted 2/25/88 0930 SS RW

Date/Time/Personnel Numbers Painted 3/8/88 1550 SS RW

Materials Used 12 bags of White

Top of Protective Casing to Top of PVC 0.31 ft. 0 cm.

Top of Protective Casing to Weep Hole 1.30 ft. 0 cm.

Top of Protective Casing to Internal Mortar 1.66 ft. 0 cm.

Top of Protective Casing to Top of Cement Pad 1.63 ft. 0 cm.

Top of Protective Casing to Ground Level 1.85 ft. 0 cm.

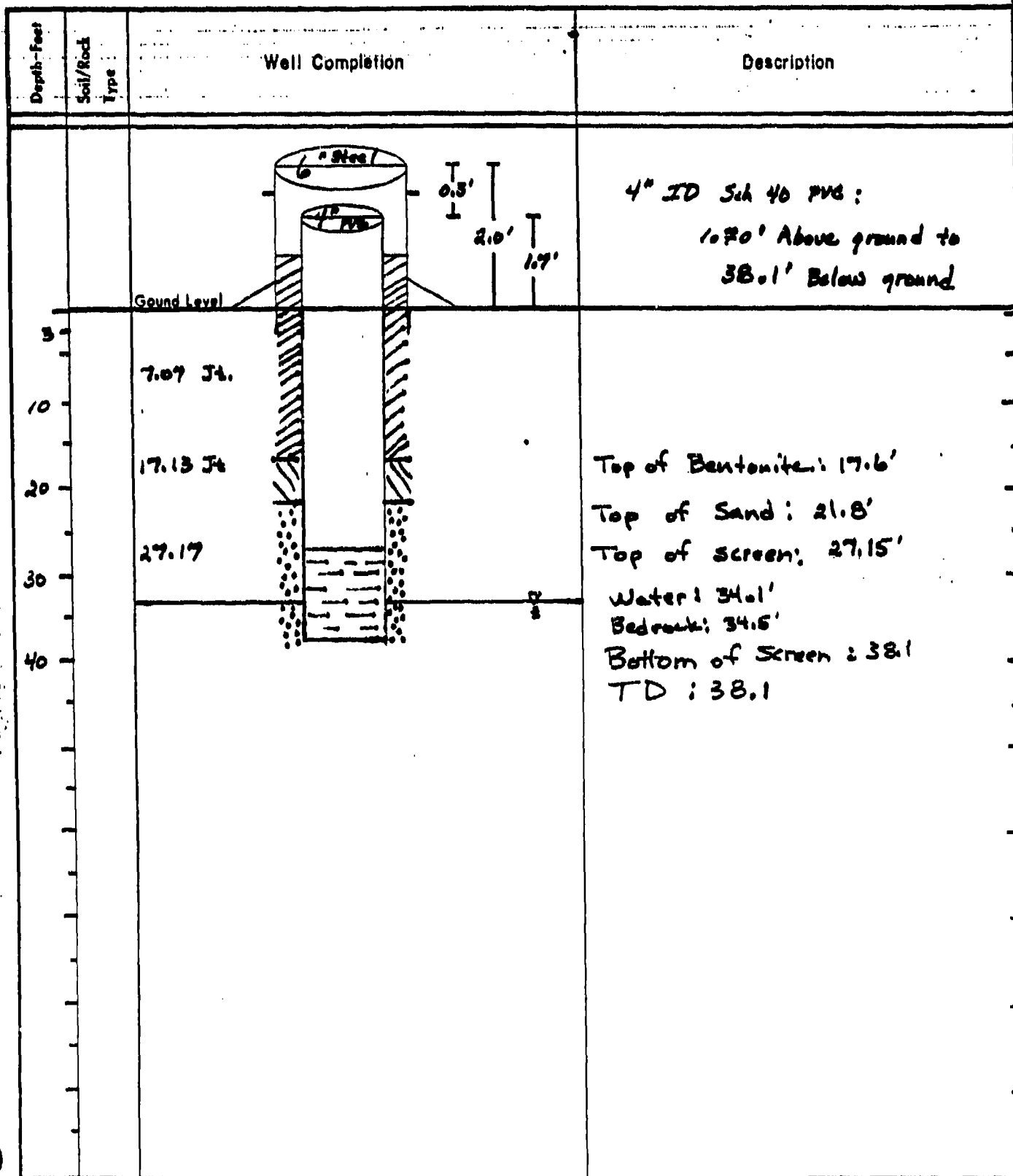
COMMENT/NOTES

Reviewed By Stan Paul Date 3/12/88

Drill Site Geologist _____ Date _____

Borehole: EP-67 Alluvial

Well: 35087

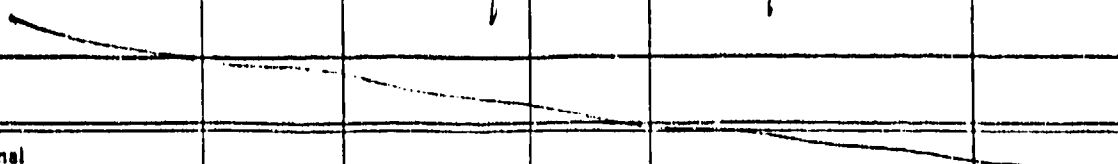


Drill Site Geologist: G. Wilken
Reviewed By: [Signature]

Date: 11-24-87
Date: 7/5/88

WELL DEVELOPMENT DATA

Project RMA OUTPOST TASK 12 44 Bore EPG7A Well 26-35087
Date(s) Developed 02/12/88 Project Number 85956
Personnel (Name/Company) WEST/Fullman ESE Date Installed 11/24/87
Rig Used ESE WELL SERVICE TRUCK Well Diameter (I.D.) 4" PVC In.
Anulus Diameter 12 1/4" In. 2 ft. to 32.1 ft.
Pump (Type/Capacity) GRUNDFOSS 3700/7000 Screen Interval 23.15 ft. to 32.1 ft.
Bailer (Type/Capacity) N/A Geotech/Bladder pump ft. to ft.
Water Source T.M.A. Casing Height (Above G.L.) 1.7 ft.
Measured Well Depth TOC (Initial) 39.80 ft. Bottom of Screen (Below G.L.) 32.1 ft.
(Final) 39.80 ft.
Water Level TOC/Date/Time (Initial) 33.45 / 2-12-86 / 0900
(after 24 hrs.) 33.45 / 3-10-86 / 0136
Feet of Water in Well 10.05 ft. x 2.32 gallons/foot = 14.0 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons * One Purge Volume 25 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 125 gallons
Added Water 10 gallons Total Purge Volume 34 gallons
Casing/Anulus Volume 14 gallons Volume Measured By 55 GROUND BARREL
Surge Technique RAISE/LOWER PUMP
Calibration: pH Meter Used: Beckman DR-1 SN: 015827
pH 7.00 = 7.04 at 12.9 °C, pH 10.00 = 10.14 at 13.0 °C
Conductance Meter Used: VSI MODEL 32 SN: 2603
Standard 1413 umhos/cm at 25°, Reading 1416 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>0 gals</u>	<u>9:34</u>	<u>13.2</u>	<u>7.10</u>	<u>1221</u>	<u>VISCEROUS OILY OUE</u>
<u>5 gals</u>	<u>10:32</u>	<u>13.7</u>	<u>7.46</u>	<u>1185</u>	<u>SAME</u>
<u>Vegetation in 5 gallons - recharge is less than 1/2 acre!</u>					
					
Final					

Remarks: 1. R. DISSENT FROM ON WATER IN BARREL

Pump on @ 0930/0935 (Pump 1) - Switch to 7 gpm in minutes. - Check for leaks.
000: 7 gpm Grundfos on no water available w/ bladder pump either. 10:15 Switched to Geotech/Bladder pump.
1 Purge vol: 14 gallons (casing + anulus) Collected by West 2/12/88 Date
+ 10 gallons (added H₂O) Signature 2/12/88 Date
24 → 25 gallons. Checked by West Signature 2/12/88 Date

WELL DEVELOPMENT DATA

Bore 2677 Well 35037

Project RM7 Project Number 86956

Date(s) Developed 02/19/88 Date Installed 11/24/87

Personnel (Name/Company) West/Pollman ESE Well Diameter (I.D.) 4" PVC

Kevin Person, 204 Rosales Annulus Diameter 12 1/4" in. 0 ft. to 35.1 ft.

Rig Used ESE Well Service Truck Screen Interval 27.15 ft. to 35.1 ft.

Pump (Type/Capacity) BRAND 2" N/A Casing Height (Above G.L.) 1.7 ft.

Baller (Type/Capacity) H/T 285" x 2.0' Bottom of Screen (Below G.L.) 35.1 ft.

Water Source RNA

Measured Well Depth TOC (Initial) 39.80 ft. (Final) 39.80 ft.

Water Level TOC/Date/Time (Initial) 33.47 / 12-19-88 / 12:31 / RR (33.45/2-12-88/2400)

(after 24 hrs.) 33.45 / 3-10-88 / 0936

Feet of Water in Well 6.35 ft. x 2.32 gallons/foot = 14.7 gallons casing/annulus volume

Drilling Fluid Lost NA gallons * One Purge Volume 25 gallons

Purge Water Lost NA gallons Minimum Purge Volume 125 gallons

Added Water 10 gallons Total Purge Volume 34 gallons

Casing/Annulus Volume 14.7 gallons Volume Measured By 5 gal bucket

Surge Technique builer

Calibration: pH Meter Used: SN # 31634.4 Brickman 421

pH 7.00 = 7.07 at 67.0°C pH 10.00 = 10.20 at 68.3 °C

Conductance Meter Used: SN # 14243 CMS Digital

Standard 1413 umhos/cm at 25°, Reading 1413 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial <u>RR</u> <u>5 gal</u>	<u>12:54</u>	<u>12.0°</u>	<u>7.93</u>	<u>1195</u>	<u>SILTY, BROWN</u>
<u>12 gal.</u>	<u>13:03</u>	<u>11.5°</u>	<u>7.81</u>	<u>1236</u>	<u>SAME</u>
Final					<u>RR</u>

Remarks: DEWATERED AFTER 7 GAL.

1 Purge vol. : 14.1d casing + annulus Collected by RR 2-12-88

+ 10 gal initial H2O Checked by RR 2-12-88

24 gal = 25 gal

WELL DEVELOPMENT DATA

Bore EP-07A Well 35087

Project RMA ON POST Project Number TASK 44

Date(s) Developed 3/4/87 Date Installed 1/24/87

Personnel (Name/Company) DLW / ESE Well Diameter (I.D.) 4 in.

RR / ESE Annulus Diameter 12 1/4 in. 0 ft. to 38.1 ft.

Rig Used ESE WITH SURFACE TROUGH in. ft. to ft.

Pump (Type/Capacity) N/A Screen Interval 27.15 ft. to 38.1 ft.

Bailer (Type/Capacity) 3.85" x 2.0' ft. to ft.

Water Source RMA Casing Height (Above G.L.) 1.7 ft.

Measured Well Depth TOC (Initial) 39.80 ft. Bottom of Screen (Below G.L.) 38.1 ft.

(Final) 39.80 ft.

Water Level TOC/Date/Time (Initial) 33.45 / 2-12-87 / 0900

(after 24 hrs.) 32.45 / 3-10-87 / 0926

Feet of Water in Well 6.05 ft. x 2.62 gallons/foot = 14.0 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons * One Purge Volume 25 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 125 gallons

Added Water 10 gallons Total Purge Volume 34 gallons

Casing/Annulus Volume 14 gallons Volume Measured By S. GILMAN BUREAU

Surge Technique BAILING

Calibration: pH Meter Used: ORION

pH 7.00 = 7.00 at 10.0 °C, pH 10.00 = 10.00 at 10.5 °C

Conductance Meter Used: ESE MODEL 32

Standard 1413 umhos/cm at 25°, Reading 1414 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, color, sand content, odor)
Initial					
12	1444	11.2	7.61	1202	cloudy w/ orange-brown silt
15	1447	11.3	7.57	1160	cloudy w/ orange-brown silt
20	1501	11.0	7.70	1220	cloudy w/ orange-brown silt
Final					

Remarks: Water level = 35.48 Discharge = 8 gallons

* 1 Purge vol. of 14 gal. casing + annulus Collected by S. Gilman 3/11/87

+ 10 gal. added 160 Checked by S. Gilman 3/11/87

34 gal. = 35 gal.

Table 1. Demographic characteristics of study population

Well 35087

Project Number TN-44

Date Installed 11/24/87

Well Diameter (I.D.) 4 in

Annulus Diameter 1 1/2 in. 0 ft. to 32.1 ft.

_____ in. _____ ft. to _____ ft.

Screen Interval 27.15 ft. to 33.1 ft.

____ ft. to ____ ft.

Casing Height (Above G.L.) 7.7 ft

Bottom of Screen (Below G.L.) 38.7 f

(after 24 hrs.) 33.45 / 3-10-88 / 0936

Drilling Fluid Lost 14.13 gallons 4 One Purge Volume 25 gallon

Added Water	10	gallons	Total Purge Volume	34	gallons
-------------	----	---------	--------------------	----	---------

Volume Measured by _____
Surgic Technique _____

Calibration: pH Meter Used: 7.14 10.4 12.12 12.37 6.2

Conductance Meter Used: 732-AVE-1

--	--	--	--	--	--

1000

Signature

•

2. 18000 v. 14000 carrying a remainder
+ 12000
27 → 25 minutes

WELL DEVELOPMENT DATA

Bore EP-67A Well 35087
 Project RMA on-post Project Number TASK 44
 Date(s) Developed 3-8-88 Date Installed 11/24/87
 Personnel (Name/Company) RR/BSE BW/BSE Well Diameter (I.D.) 4 in.
 Anulus Diameter 12 1/2 in. 0 ft. to 38.1 ft.
 Screen Interval 27.16 ft. to 38.1 ft.
 Casing Height (Above G.L.) 1.7 ft.
 Bottom of Screen (Below G.L.) 38.1 ft.
 Rig Used ESE Well Service truck
 Pump (Type/Capacity) N/A
 Bailor (Type/Capacity) 3.85" x 2.0"
 Water Source RMA
 Measured Well Depth TOC (Initial) 39.80 ft.
 (Final) 39.30 ft.
 Water Level TOC/Date/Time (Initial) 33.45 / 2-12-88 / 0900 / BW
 (after 24 hrs.) 33.45 / 3-10-88 / 9:36 / PK
 Feet of Water in Well 6.29 ft. x 14.6 gallons/foot = 14.6 gallons casing/anulus volume
 Drilling Fluid Lost N/A gallons One Purge Volume 25 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 12.5 gallons
 Added Water 10 gallons Total Purge Volume 34 gallons
 Casing/Anulus Volume 14.6 gallons Volume Measured By 55 Gallon Barrel / 1 gal bucket
 Surge Technique Bailing
 Calibration: pH Meter Used: Beckman 621 at pH Meter SN 016344
 pH 7.00 = 7.05 at 12.0 °C, pH 10.00 = 10.14 at 12.9 °C
 Conductance Meter Used: YST Model 82 SN 2603
 Standard 1413 umhos/cm at 25°, Reading 1416 umhos/cm at 11.5 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 27	1337	13.4	7.83	1193	cloudy w/ orange-brown silt
30	1343	12.0	7.79	1194	cloudy w/ orange-brown silt
33	1347	11.9	7.76	1192	cloudy w/ orange-brown silt
Final 34	1351	12.1	7.71	1211	cloudy w/ orange-brown silt
Final					

Remarks: Water level = 33.51' / 1333 Unwatered 2 gallons

39.80

purge vol. 14.6

Collected by

Bob Winters

3-8-88

Signature

Date

Checked by

Signature

Date

33.45

6.29

10

2.0

WELL CONSTRUCTION SUMMARY

Borehole EP67 D1 Well SAFES^{SP} 35088
Project Name and Location ZOGAY MTH ARSENAL - SECTION 35 Project Number TRK 44
Drilling Company BOYLES BROS Driller DON IRVINE Rig Number _____
Drilling Method(s) HOLLOW STEM AUGER 0-38.6 ft
ROTARY W/ CLEAN WATER 38.6-48.9'

Borehole Diameter 12" in. _____ cm. 0-38.6 ft. _____ cm. to _____ ft. _____ cm.
5 3/4" in. _____ cm. 38.6-187 ft. _____ cm. to _____ ft. _____ cm.

Size(s) and types of Bit(s) AUGER: 12" O.D. / 7.7" I.D.
ROTARY: 5 3/4" I.D.

Size and Type PVC 4" O.D. SCH 40

Total Borehole Depth 48.9 ft. _____ cm.

Depth to Bedrock ~36 ft. _____ cm.

Depth to Water ~34 ft. _____ cm.

Water Level Determined By WHEN ENCOUNTERED
AUGER DRILL

Length Plain PVC (total) 44.76 ft. _____ cm.

Length of Screen 5.64 ft. _____ cm.

Total Length of Well Casing 50.6 ft. _____ cm.

PVC Stick Up 1.7 ft. _____ cm.

Depth to Bottom of Screen 48.9 ft. _____ cm.

Depth to Top of Screen 43.26 ft. _____ cm.

Depth to Top of Sand 40 ft. _____ cm.

Depth to Top of Bentonite 35 ft. _____ cm.

Sampling Method(s) N/A

Date/Time Start Drilling 12/1/87 0900

Date/Time Finish Drilling 12/1/87 1100 (FINISHED)

Date/Time Start Completion 12/2/87 1140

Date/Time Cement Protective Casing N/A

Materials Used _____

Plain PVC 5" 44.76' SCH 40

Slotted PVC 5.64' SCH 40 .010 SLOT

Bentonite Pellets 2 BAGS (100 lbs)

Bentonite Granular 10 BAGS SURFACE CASING

Cement 5 BAGS WELL CASING

Sand 2 BAGS

Water added during completion GROUTING 1500' SURFACE CASING

Water added during drilling GROUTING 1500' SURFACE CASING

Total Gallons of water added 0

Drill Site Geologist KEITH S. POLLMAN

Date DEC. 3, 1987

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 2/25/88 0945 SS RW

Date/Time/Personnel Casing Painted 2/25/88 09 1000 SS RW

Date/Time/Personnel Numbers Painted 3/18/88 1530 RW RW

Materials Used 12 bags white

Top of Protective Casing to Top of PVC 0.64 ft. _____ cm. COMMENT/NOTES

Top of Protective Casing to Weep Hole 1.40 ft. _____ cm.

Top of Protective Casing to Internal Mortar 1.96 ft. _____ cm.

Top of Protective Casing to Top of Cement Pad 1.55 ft. _____ cm.

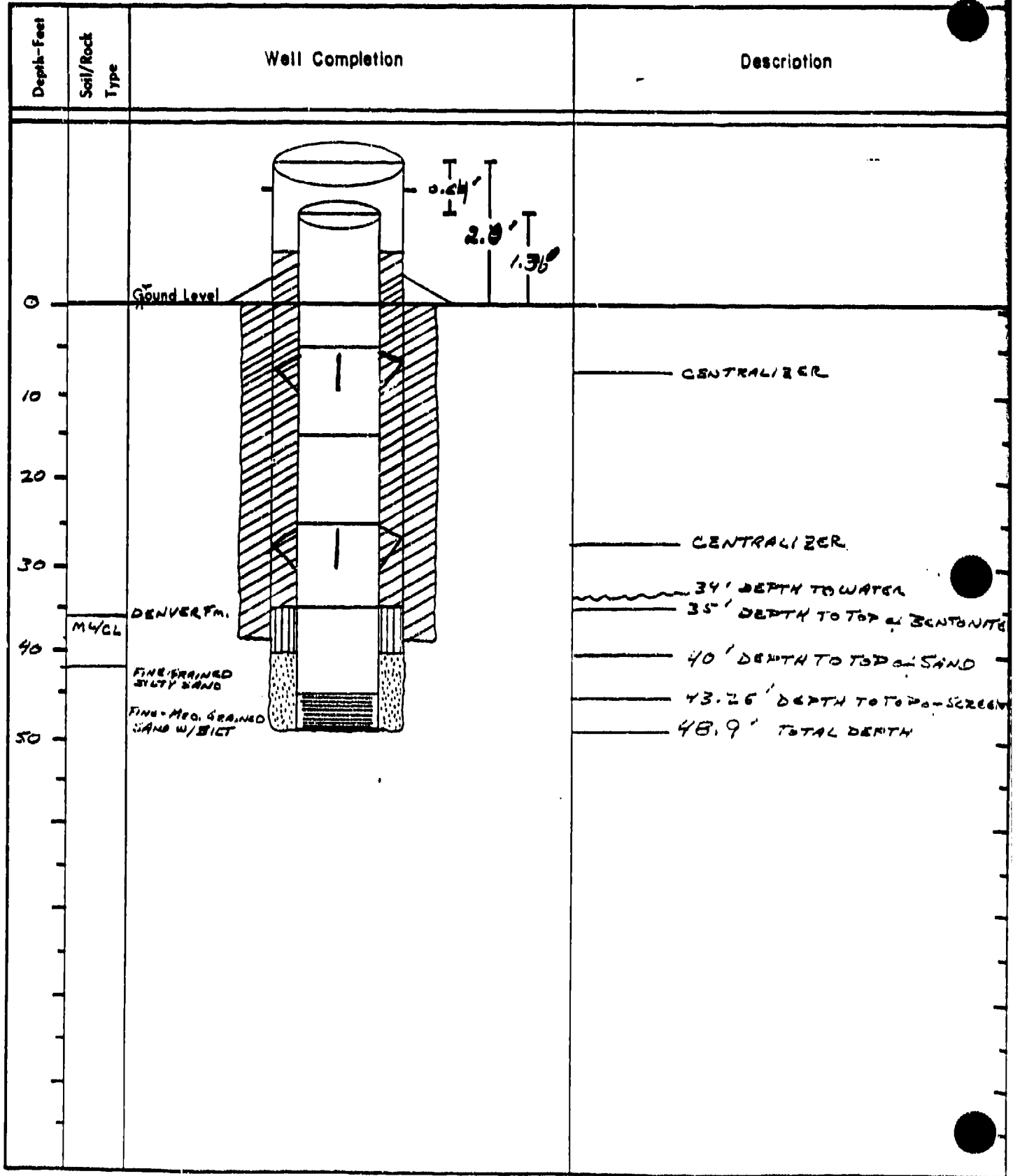
Top of Protective Casing to Ground Level 2.5 ft. _____ cm.

Reviewed By [Signature] Date 3/15/88

Drill Site Geologist _____ Date _____

Borehole: EP-6701

Well: EP-6701 SP 35088



Drill Site Geologist: [Signature]
Reviewed By: [Signature]

Date: 10/1-12/1/88
Date: 3/8/88

WELL DEVELOPMENT DATA

Project TEST 44 Bore EP6711 Well 35088
 Date(s) Developed 2-19-88 Project Number 12-3-87
 Personnel (Name/Company) ESE Date Installed 12-3-87
Kevin Pierson / Ray Rosales Well Diameter (I.D.) 4" PVC In.
 Rig Used Well Develop. Truck Annulus Diameter 12 1/4" In. 40' ft. to 49.7' ft.
 Pump (Type/Capacity) N/A Screen Interval 424.3, 26' ft. to 49.7' ft.
 Bailor (Type/Capacity) WATER BAILER Stainless steel Casing Height (Above G.L.) 1.7' ft.
 Water Source RM 4 Bottom of Screen (Below G.L.) 49.7' ft.
 Measured Well Depth TOC (Initial) 32.7' ft. S₈₃
 (Final) 50.82' ft.
 Water Level TOC/Date/Time (Initial) 31.93 / 1315 / 2-19-88 / RR
 (after 24 hrs.) 32.16 / 1314-00 / 1220
 Feet of Water in Well 12.17 ft. x 2.32 gallons/foot = 28.25 gallons casing/annulus volume
 Drilling Fluid Lost N/A gallons One Purge Volume 20 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 100 gallons
 Added Water 0 gallons Total Purge Volume 105 gallons
 Casing/Annulus Volume gallons Volume Measured By 5 GAL. BUCKET
 Surge Technique BAILING
 Calibration: pH Meter Used: SN #111634-4
 pH 7.00 = 7.07 at 07.0 °C. pH 10.00 = 10.20 at 09.3 °C
 Conductance Meter Used: SN #14243
 Standard 1413 umhos/cm at 25°. Reading 1413 umhos/cm at 23.0 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial <u>RR 0 Gal.</u>	<u>13150</u>	<u>12.4°</u>	<u>7.58</u>	<u>76.8</u>	<u>SILTY BROWN</u> <u>SOME SEC</u>
<u>25 Gal.</u>	<u>1425</u>	<u>12.5°</u>	<u>7.58</u>	<u>1421</u>	<u>SILTY BROWN</u>
<u>31 Gal.</u>	<u>1441</u>	<u>12.0°</u>	<u>7.58</u>	<u>1495</u>	<u>SILTY BROWN</u> <u>LOTS OF SEC.</u>
Final					<u>RR</u>

Remarks: DEWATERED @ 31 Gal.

Collected by [Signature] Date 2-19-88
 Checked by [Signature] Date 2-19-88

WELL DEVELOPMENT DATA

Bore EP-6701 Well 35088

Project Task 44 RMA OA-Post Project Number Task 44

Date(s) Developed 3/9/88 Date Installed 12/2/87

Personnel (Name/Company) RR/ESE BW/ESE Well Diameter (I.D.) 4 in.

Rig Used ESE Well Development Truck Annulus Diameter 12 in. 0 ft. to 38.6 ft.

Pump (Type/Capacity) GRUNDOS 500W 5 3/4 in. 38.6 ft. to 48.9 ft.

Bailer (Type/Capacity) N/A Screen Interval 48.26 ft. to 48.9 ft.

Water Source RMA Casing Height (Above G.L.) 1.7 ft.

Measured Well Depth TOC (Initial) 2469.59.83 Bottom of Screen (Below G.L.) 48.9 ft.

(Final) 50.82 ft.

Water Level TOC/Date/Time (Initial) 31.89/3-9-88 6:32/RR BW.

(after 24 hrs.) 32.10/3-14-88/1220

Feet of Water in Well 18.94 ft. x 0.653 gallons/foot = 12.37 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons * One Purge Volume 20 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 100 gallons

Added Water 0 gallons Total Purge Volume 105 gallons

Casing/Annulus Volume 12.37 gallons Volume Measured By 55 Gal. Barrel and 5 Gal. bucket

Surge Technique raise and lower pump?

Calibration: pH Meter Used: Buckman 21 pH Meter SN 016344

pH 7.00 = 7.03 at 15.2 °C, pH 10.00 = 10.13 at 14.2 °C

Conductance Meter Used: YST Model 32 SN 2603

Standard 1413 umhos/cm at 25°, Reading 1413 umhos/cm at 15.2 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
21	0905	14.6	7.69	1503	Cloudy Brown w/ silt + fine grained sand
41	0913	13.7	8.18	1460	Cloudy Brown w/ silt + fine grained sand
51	0925	14.6	7.87	1479	Cloudy Brown w/ silt + fine grained sand
56	0937	15.0	7.53	1210	Cloudy
Final				50	

Remarks: Considered @ 5 gal total in 35 gal, 15 min later Sandpoint = 48.01 Bot. of Screen

well recharged to 6 gal 40.0 Top of Sand

54 44 x 15.2 gal/ft = 76.

1 Purge vol: 12.4 casing
- 8 gal sandpoint

Collected by RR/ESE 3-9-88 Signature RR/ESE Date 3-9-88

Checked by RR/ESE Signature RR/ESE Date 3-9-88

30.11 gal/min

WELL DEVELOPMENT DATA

Bore EP-67D1 Well 35-088

Project RMA-41-P35T Project Number Task 44

Date(s) Developed 3-10-88 Date Installed 12-2-87

Personnel (Name/Company) AR/ESE Well Diameter (I.D.) 4" in.

BW/ESE Annulus Diameter 12 in. 0 ft. to 38.6 ft.

Rig Used Well Developer Truck 5 3/4 in. 38.6 ft. to 48.9 ft.

Pump (Type/Capacity) Grout Pk / 5 GPM Screen Interval 43.26 ft. to 48.9 ft.

Bailer (Type/Capacity) N/A ft. to ft.

Water Source RMA Casing Height (Above G.L.) 1.7 ft.

Measured Well Depth TOC (Initial) 50.83 ft. Bottom of Screen (Below G.L.) 48.9 ft.

(Final) 50.82 ft. 3-9-88 / 8:32

Water Level TOC/Date/Time (Initial) 31.59 ft. 3-9-88 / 8:23 / AR BW

(after 24 hrs.) 32.10 ft. 3-14-88 / 1220

Feet of Water in Well 18.74 ft. x 0.653 gallons/foot = 12.37 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 20 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 100 gallons

Added Water 0 gallons Total Purge Volume 105 gallons

Casing/Annulus Volume 12.37 gallons Volume Measured By 55 Gal. Barrels

Surge Technique Raise & Lower Pump

Calibration: pH Meter Used: Beckman 021 PH Meter SN # 116344

pH 7.00 = 7.03 at 16.1 °C. pH 10.00 AR 17.6 °C

Conductance Meter Used: YSI Model 32 SN # 2603

Standard 1413 umhos/cm at 25°, Reading 14.14 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25 °C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
56	8:43	12.7°	7.77	1563	cloudy brown w/ silt & fine green sand
66	8:47	12.5°	7.47	1513	cloudy brown w/ some silt
71	8:55	11.6°	7.43	1496	cloudy very little silt
81	9:14	10.7°	7.38	1501	slightly cloudy
Final					

Remarks: 31.60 = water level start pump 8:40 / pump off 9:13

Devel. test at 25 °C

Purge Vol. 124 casing

1.5 gal. sand pack

Collected by AR Signature AR Date 3-14-88

Checked by AR Signature AR Date 3-14-88

WELL DEVELOPMENT DATA

Bore EP-67D1 Well 35088
Project PMA ON-POST Project Number TASK 42
Date(s) Developed 3/10/88 CONTINUED Date Installed _____
Personnel (Name/Company) DLW, TLR, BW Well Diameter (I.D.) _____ in.
ESE Anulus Diameter _____ in. _____ ft. to _____ ft.
Rig Used ESE WELL SERVICE TRUCK _____ in. _____ ft. to _____ ft.
Pump (Type/Capacity) GRINDROS / 5 GPM Screen Interval _____ ft. to _____ ft.
Bailer (Type/Capacity) N/A _____ ft. to _____ ft.
Water Source PMA Casing Height (Above G.L.) _____ ft.
Measured Well Depth TOC (Initial) 50.83 ft. Bottom of Screen (Below G.L.) _____ ft.
(Final) 50.53 ft.
Water Level TOC/Date/Time (Initial) 31.89 / 3-9-88 / 0432
(after 24 hrs.) 32.10 / 3-14-88 / 1220
Feet of Water in Well 18.94 ft. x .657 gallons/foot = 12.37 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 20 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 100 gallons
Added Water 0 gallons Total Purge Volume 105 gallons
Casing/Anulus Volume 12.37 gallons Volume Measured By 55 GALLON BARREL
Surge Technique RAISE / LOWER PUMP
Calibration: pH Meter Used: BECKMAN 021 SN: 0163441
pH 7.00 = 7.10 at 2.7 °C pH 10.00 = 10.25 at 5.0 °C
Conductance Meter Used: TSE MODEL 32
Standard 1413 umhos/cm at 25°, Reading _____ umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
81	1520	10.4	7.41	1566	cloudy w/ brown silt - many grains / lighter black dots
91	1524	10.3	6.88	1492	cloudy w/ brown silt
95	1532	8.1	7.10	1468	is cloudy w/ brown silt
Final					

Remarks: Water level = 32.06 @ 1510
Pump on 1513 Note: Beckman pH meter had been -
had to change to ORION 2A 233 for last parameter.
(All parameter seem not be correct.)
Collected by DLW 3/10/88
Checked by TLR 3/10/88
Signature _____ Date _____
Signature _____ Date _____

WELL DEVELOPMENT DATA

Project RMA on Post Bore EP-6701 Well 35088
Date(s) Developed 3-11-88 Project Number Task 44
Personnel (Name/Company) RR, BW/ESE Date Installed 12-2-87
Well Diameter (I.D.) 4 in.
Anulus Diameter 12 in. 0 ft. to 38.6 ft.
Screen Interval 52 1/4 in. 38.6 ft. to 46.9 ft.
Casing Height (Above G.L.) 1.7 ft.
Bottom of Screen (Below G.L.) 48.9 ft.
Rig Used ESE Well Service Truck
Pump (Type/Capacity) Grundfos / 5 GPM
Bailer (Type/Capacity) N/A
Water Source RMA
Measured Well Depth TOC (Initial) 50.83 ft.
(Final) 50.82 ft.
Water Level TOC/Date/Time (Initial) 31.89 / 3-9-88 / 0832
(after 24 hrs.) 32.10 / 3-14-88 / 1220
Feet of Water in Well 18.94 ft. x 6.53 gallons/foot = 12.37 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons ✓ One Purge Volume 20 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 1000 gallons
Added Water 0 gallons Total Purge Volume _____ gallons
Casing/Anulus Volume 12.37 gallons Volume Measured By 55 Gallon Barrel
Surge Technique Surge / Lower Pump
Calibration: pH Meter Used: Beckman 621 SN 016344
pH 7.00 = 7.64 at 13.3 °C. pH 10.00 = 10.14 at 13.33 °C
Conductance Meter Used: YSI Model 32 SN 2603
Standard 1413 umhos/cm at 25°, Reading 1411 umhos/cm at 4.2 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 95	0834	7.8	7.56	1345	Cloudy Brown w/ silt
100	0842	9.1	7.33	1452	less cloudy/ small amount of sand
Final 100	0853	9.3	7.41	1455	Cloudy Brown w/ silt with small amount of sand
Final					

Remarks: Water level = 31.83 Start pump 0834, pump off 0853, Final Sample
development water - obtained

1 Purge Vol. 12.4 Casing
Sand from
20.4

Collected by Bob [Signature] Date 3-1-88
Checked by [Signature] Date 3/7/88

WELL CONSTRUCTION SUMMARY

Borehole EP-6772 Well 35089
Project Name and Location Run Task 44 Well Installation JH, SW Project Number T44
Drilling Company Boggs Bros. Driller Don Levine Rig Number 22
Drilling Method(s) Rotary wash

Borehole Diameter 16 1/4 in. 0 ft. 38 cm. to 38 ft. 50 cm.
11 3/4 in. 38 ft. 50 cm. to 69 ft. 50 cm.
7 1/8 50 ft. to 69 ft.

Size(s) and types of Bit(s) 16 1/4", 11 3/4", 7 1/8"
Blade Bits

Size and Type PVC 4" Sch 40

Total Borehole Depth 69 ft. cm.

Depth to Bedrock 33 ft. cm.

Depth to Water — ft. cm.

Water Level Determined By —

Length Plain PVC (total) 68.2 ft. 58.2 cm.

Length of Screen 10.0 ft. cm.

Total Length of Well Casing 68.2 ft. cm.

PVC Stick Up 1.7 ft. cm.

Depth to Bottom of Screen 66.0 ft. cm.

Depth to Top of Screen 56.0 ft. cm.

Depth to Top of Sand 50.0 ft. cm.

Depth to Top of Bentonite 46.0 ft. cm.

Sampling Method(s) Previously Cond

Date/Time Start Drilling 12/4/87 1040

Date/Time Finish Drilling 12/9/87 1500

Date/Time Start Completion 12/9/87 1550

Date/Time Cement Protective Casing 12/10/87 0845

Materials Used —

Plain PVC 58.2 ft. 58.2 cm.

Slotted PVC 10.67 ft.

Bentonite Pellets 1.25 buckets (62.5 lb.)

Bentonite Granular 2.25 bags (135 lb.)

Cement 23 bags (2070 lb.)

Sand 3 bags (300 lb.)

Water added during completion 0 gal.

Water added during drilling 50 gal.

Total Gallons of water added 50 gal.

Drill Site Geologist A. E. Dattoli

Date 12/10/87

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 2/25/88 1030 SS RP

Date/Time/Personnel Casing Painted 2/25/88 1100 SS RP

Date/Time/Personnel Numbers Painted 3/8/88 1800 BLW RR

Materials Used 12 bags sucker

Top of Protective Casing to Top of PVC 0.18 ft. cm.

Top of Protective Casing to Weep Hole 1.0 ft. cm.

Top of Protective Casing to Internal Mortar 1.4 ft. cm.

Top of Protective Casing to Top of Cement Pad 1.5 ft. cm.

Top of Protective Casing to Ground Level 1.9 ft. cm.

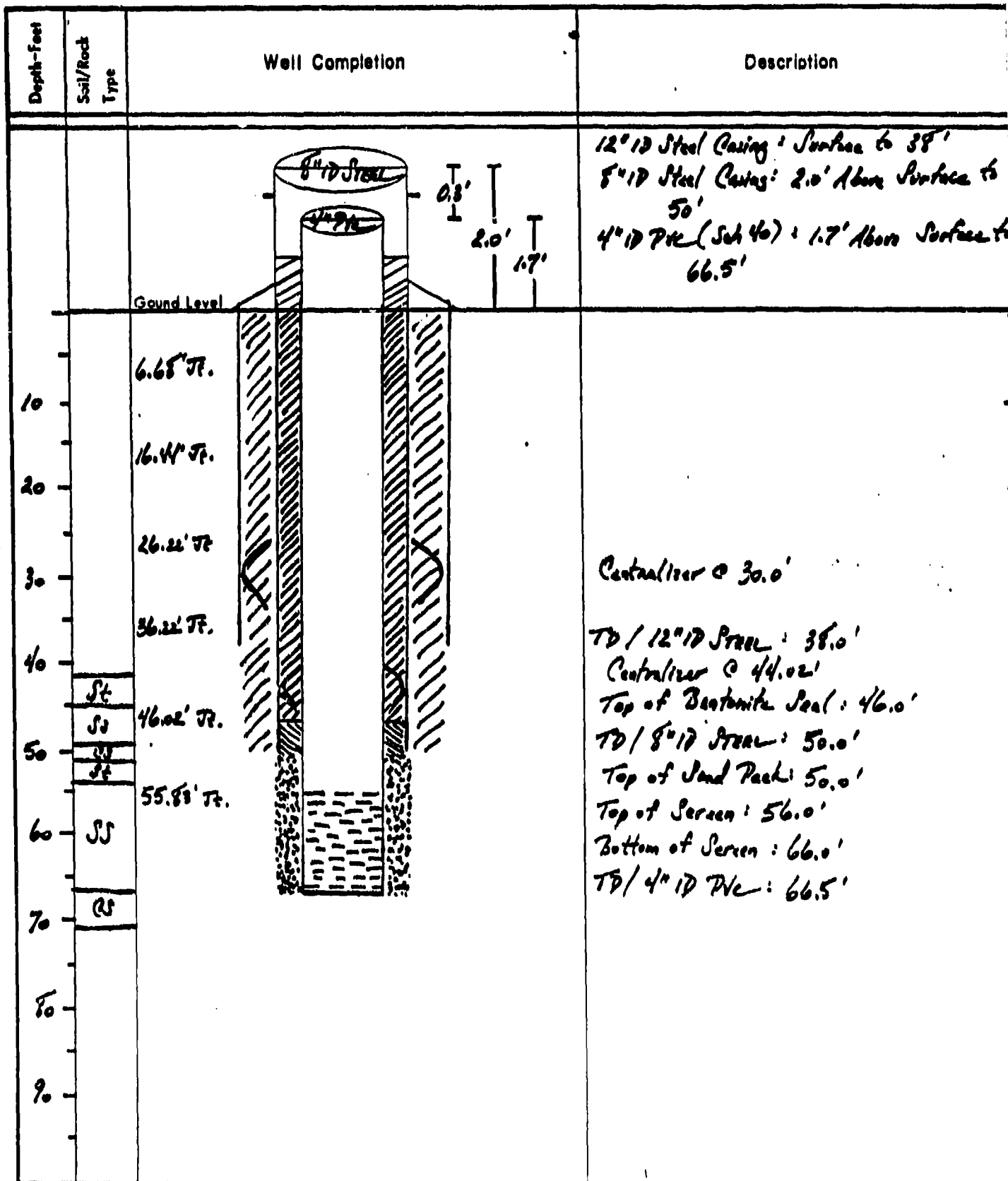
COMMENT/NOTES

Reviewed By Steve Davis Date 3/8/88

Drill Site Geologist — Date —

Borehole: EP-67P

Well: 35089



Drill Date Geologist: A.G. Dattoli
Reviewed By: [Signature]

Date: 12/9/87
Date: 3/8/88

WELL DEVELOPMENT DATA

Bore ED-67DL Well 35089

Project RMH ON-POST Project Number TRISK 44
Date(s) Developed 3/7/88 Date Installed 12/10/87
Personnel (Name/Company) RMH/ESE Well Diameter (I.D.) 4 in.
RR/ESE BN/ESE Annulus Diameter 16 1/4 in. 0 ft. to 48 ft.
Rig Used ESE with SEARCE THERM 11 1/4 in. 30 ft. to 50 ft.
Pump (Type/Capacity) GRUNDIGS / 5 GPM Screen Interval 7 1/2 in. 50 ft. to 60 ft.
Bailer (Type/Capacity) N/A 50 ft. to 66.0 ft.
Water Source RMH Casing Height (Above G.L.) 1.7 ft.
Measured Well Depth TOC (Initial) 64.90 ft. Bottom of Screen (Below G.L.) 66.0 ft.
(Final) 68.26 ft.
Water Level TOC/Date/Time (Initial) 35.05 / 3-7-88 / 15:05
(after 24 hrs.) 35.40 / 3-9-88 / 10:00 34.88 / 3-11-88 / 14:30
Feet of Water in Well 29.85 ft. x 0.653 gallons/foot = 19.5 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons * One Purge Volume 83 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 415 gallons
Added Water 50 gallons Total Purge Volume 415 gallons
Casing/Annulus Volume 19.5 gallons Volume Measured By 53 GALLON BURET
Surge Technique RHISE / LOWER PUMP

Calibration: pH Meter Used: BROWN P21 SN: 016244
pH 7.00 = 7.04 at 51.2 °C. pH 10.00 = 10.25 at 4.8 °C
Conductance Meter Used: ESE MODEL 32 SN: 2003
Standard 14.3 umhos/cm at 25°, Reading 1412 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
3 gal.	1543	9.8	12.33	2350	viscous, thick muddy w/ gray silt
10 gal.	1552	10.1	12.43	2670	muddy w/ gray silt
20 gal.	1556	11.3	12.24	2000	less muddy (cloudy) w/ gray silt & some fine S
35 gal.	1613	11.8	10.98	667	mostly clear some fine mud & some S
Final					

Remarks: Pump 1540
Tip reading = 0.6 gpm. Pump rate of 40 gpm = 4.2 min.
Standpipe = 66.0 but if in case
50.0 top of 2nd
10.0 ft x 0.653 gal/ft = 6.53 gal

Collected by J. J. [Signature] 3/7/88 Date
Checked by [Signature] 3/7/88 Date

2. Purge vol. 14.5 casing vol. 13.6 Standpipe vol. 50.0 16.0
33.1 gal

WELL DEVELOPMENT DATA

Bore EP 67 DZ Well 35089

Project RMA On Post Project Number TASK 44

Date(s) Developed 3-8-88 Date Installed 12-10-87

Personnel (Name/Company) RR/ES/E BW/ES/E Well Diameter (I.D.) 4 in.

Rig Used ESE Well Service Truck Annulus Diameter 10 1/4 in. 0 ft. to 38 ft.

Pump (Type/Capacity) Grundfos / 5 GPM 11 3/4 in. 29 ft. to 50 ft.

Bailer (Type/Capacity) N/A Screen Interval 7 7/8 in. 50 ft. to 69 ft.

Water Source RMA 550 ft. to 66 ft.

Measured Well Depth TOC (Initial) 64.90 ft. Casing Height (Above G.L.) 1.7 ft.

(Final) 68.26 ft. Bottom of Screen (Below G.L.) 66.0 ft.

Water Level TOC/Date/Time (Initial) 35.05 / 3-7-88 / 1525

(after 24 hrs.) 35.46 / 3-8-88 / 1040 34.58 / 2-11-88 / 1400

Feet of Water in Well 29.63 ft. x 65.3 gallons/foot = 19.5 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 83 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 415 gallons

Added Water 50 50 gallons Total Purge Volume 415 gallons

Casing/Annulus Volume 19.5 gallons Volume Measured By 55 Gallon Barrel

Surge Technique Base and Lower Pump

Calibration: pH Meter Used: Breckman 621 pH meter SN 016344

pH 7.00 = 7.05 at 13.0 °C, pH 10.00 = 10.14 at 12.9 °C

Conductance Meter Used: YST Model 32 SN 2603

Standard 1413 umhos/cm at 25°, Reading 1416 umhos/cm at 11.5 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>85</u>	<u>1430</u>	<u>13.7</u>	<u>12.02</u>	<u>796</u>	<u>cloudy w/ green slt</u>
<u>100</u>	<u>1439</u>	<u>13.4</u>	<u>11.49</u>	<u>862</u>	<u>less cloud w/ green slt</u>
<u>15</u>	<u>1449</u>	<u>13.6</u>	<u>11.29</u>	<u>789</u>	<u>mostly clear w/ fine sand</u>
<u>170</u>	<u>1504</u>	<u>12.4</u>	<u>9.82</u>	<u>801</u>	<u>clear</u>
<u>255</u>	<u>1545</u>	<u>12.1</u>	<u>9.37</u>	<u>879</u>	<u>clear</u>
Final				<u>736</u>	<u>clear</u>

Remarks: Water level = 35.27

Collected by [Signature] 3-8-88

Checked by [Signature] 3-8-88

WELL DEVELOPMENT DATA

Bore ERG702 Well 35089
Project RMA on Post Project Number Task 44
Date(s) Developed 3-8-88 Date Installed 12-10-87
Personnel (Name/Company) RR/ESE BW/ESE Well Diameter (I.D.) 4 in.
Anulus Diameter 10 1/4 in. 0 ft. to 32 ft.
Rig Used ESE Well Service truck 11 3/4 in. 32 ft. to 50 ft.
Pump (Type/Capacity) Ground Hog / 5 GPM Screen Interval 7 7/8 in. 50 ft. to 69 ft.
Bailer (Type/Capacity) N/A 56.0 ft. to 66.0 ft.
Water Source RMA Casing Height (Above G.L.) 1.7 ft.
Measured Well Depth TOC (Initial) 64.90 ft. Bottom of Screen (Below G.L.) 66.0 ft.
(Final) 68.26 ft.
Water Level TOC/Date/Time (Initial) 35.05 / 3-7-88 / 1525
(after 24 hrs.) 35.96 / 3-9-88 / 1430 34.86 / 3-11-88 / 1430
Feet of Water in Well 29.63 ft. x 653 gallons/foot = 19.5 + 13.6 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 83 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 415 gallons
Added Water 50 gallons Total Purge Volume 415 gallons
Casing/Anulus Volume 19.5 gallons Volume Measured By 55 Gallon Barrel
Surge Technique Large & Lower Pump
Calibration: pH Meter Used: Beckman # 21 pH Meter S/N 016344
pH 7.00 = 7.05 at 12.0 °C, pH 10.00 = 10.14 at 13.9 °C
Conductance Meter Used: YSI Model 33 S/N 2603
Standard 1413 umhos/cm at 25°, Reading 1416 umhos/cm at 11.5 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
340	15:55	13.4	9.14	936	Clear
415	16:48	13.7	8.21	1135	Clear
Final					DW

Remarks: _____

13.5 umhos

Collected by [Signature] Date 3-8-88
Checked by [Signature] Date 3-8-88

EP-71A

BOREHOLE SUMMARY LOG

Borehole EP 71 A Well 23237, 23238
Project Name and Location RMA Soil Sampling T44 well Installation Project Number 1705302110
Drilling Company Boyles Driller R. Muckey Rig Number _____
Drilling Method(s) 3 1/4" ID HS Auger

Size(s) and type(s) of bit(s) 3 1/4" ID HS Bit - clay bit
Borehole Diameter 4 in. _____ cm. 0 ft. _____ cm. to 26 ft. _____ cm.
_____ in. _____ cm. _____ ft. _____ cm. to _____ ft. _____ cm.

Sampling Methods Poly buterate tube in continuous sampler

Total Number Soil Sampling Tubes 9

Total Number Core Boxes 2

Number of Gallons Lost Drilling Fluid None

Date/Time Started Drilling 11-12-87 / 0829

Date/Time Completed Drilling 11-12-87 / 1605

Total Borehole Depth 26 ft. _____ cm.

Depth to Bedrock 12' ft. _____ cm.

Depth to Water Not Encountered cm.

Water Level Determined By? ✓

Borehole Completed as Monitoring Well? No

Date/Time Grouting Completed 11-12-87 / 0959

Depth of Tremmie Pipe 16'

Gallons of Grout 60 gal

Materials Used 5 bags concrete 1/2 bag bentonite

Comments _____

Wellsite Geologist K. Jackson Date 11/12/87

Checked for Grout Settlement on 11/12/87 by _____

Amount of Grout Added 60 gal

All Measurements from Ground Level

Reviewed by Steve Davis Date 3/17/88

Drill Site Geologist _____ Date _____

clayey siltstone

Borehole: EP-71 A

Well Number: 23237, 23238

SOILS LOG
Description

Munsell Colors

Depth - feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	Description
0	2-0	2'	N/A	2-2	ML	ML, Sandy-silt, 10-15% vfg sand, 10YR 7/3 brown-dk. brown, non-plastic, loose, moist, Alluvium @ 0.8 color change to 10YR 5/4 yellowish brown
2	2-4	2'		2-11		ML, sandy silt 10% vfg sand w/ trace calcite 10YR 5/3 brown, non-plastic, medium dense, slightly moist, Alluvium
4	4-6	2'		4-6		ML, sandy silt ~ 30% vfg sand, w/ trace calcite 10YR 5/4 yellowish brown, non-plastic, medium dense, slightly moist, Alluvium
6	6-8	0		6-8		NO RECOVERY 6'-9.5' Encountered white fine silt plugged bbl.
8	8-10	0.5'		8-10		
10	10-12	2'		10-12		① 9.9' ML, sandy silt, ~ 5% sand, 10YR 7/3 very pale brown, non-plastic, loose, dry, Alluvium ~ 40% calcium carbonate 10YR 1/1 white ② 11.0' ML, sandy silt, ~ 10% sand, 10YR 5/2, grayish by w/ ~ 25% calcium carbonate 10YR 1/2 white non-plastic, medium dense, dry, Alluvium

Drill Site Geologist: K. J. [Signature]

Date: 11-12-97

Reviewed By: [Signature]

Date: 11/18/97

Borehole: TC 71A

Well Number: _____

SOILS LOG					
Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification
Munsell Colors					
12	12-13	2'	N/A	12-13	<p>@ 12.0' weathered clayey siltstone, ~40% clay 10YR 5/2, grayish brown w/ 10YR 7/2 pale brown calcium carbonate spots, traces of small gravel possibly granite, dense, dry, Bedrock</p> <p>Same w/ ~30% calcium carbonate 10YR 5/2 lt. brownish gray.</p>
14	14-15	2'		14-15	
16	16-17	0		16-17	
18	18-20	0		18-20	
20	20-22	2'		20-22	<p>NO RECOVERY 16-20' Encountered gravel @ ~16.5 sample fell out</p> <p>gravel won't enter shoe.</p> <p>@ 20' @W, sandy gravel, ~30% sand 10YR 7/4 with reddish 10YR 5/3 brown, dense, loose, moist</p> <p>@ 20.5' @W, sandy clay, slightly weathered oxidized, 10YR 5/2 grayish brown, medium dense, moist</p>
22	22-24	0		22-24	
24					<p>NO RECOVERY 22-24' coarse + fine gravels.</p>

Drill Site Geologist: [Signature]

Date: 11-12-02

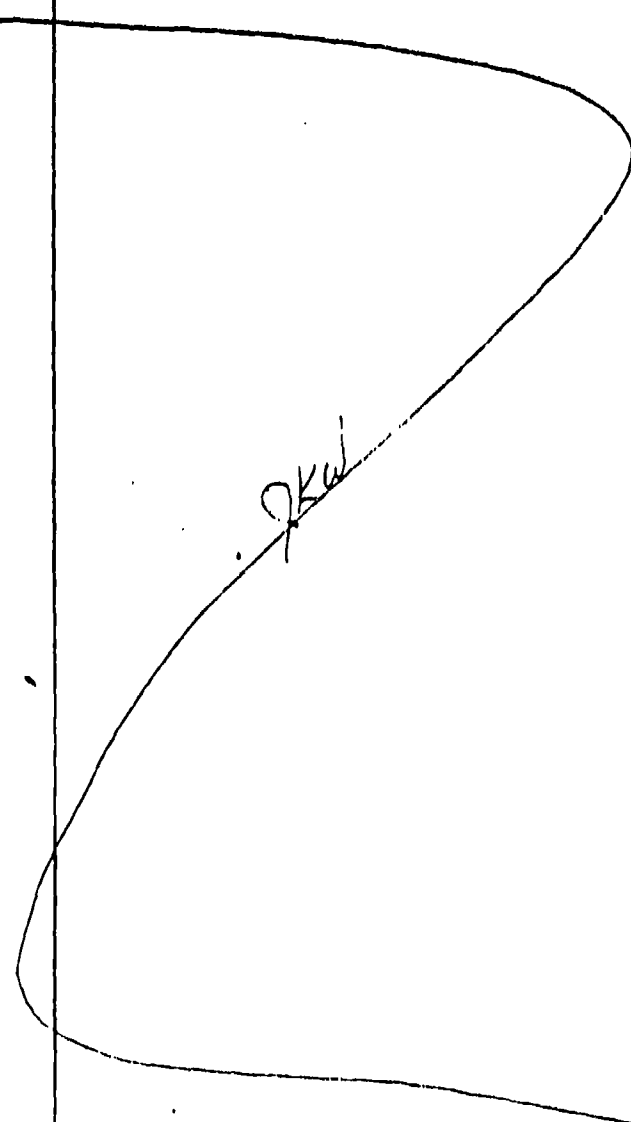
Reviewed By: [Signature]

Date: 11/13/02

Borehole: EP 71A Well Number: _____

SOILS LOG
Description

Munsell Colors

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	
24	92-12	2'	N/A	92-12		<p>@ 24' Well rounded gravel 10YR 5/3</p> <p>@ 24.05' Silty clay - weathered, 10YR 4/1 dk gray med. dense, moist</p>
26						<p>END OF BORING LOG</p> 

Drill Site Geologist: [Signature] Date: 11-12-97
 Reviewed By: [Signature] Date: 11-12-97

Core No.	Interval (ft)	Structure / Bedding	Color / Description	Grain Size	Notes	Lab. Char.	Lab. Class.	Description / Comments
42	42							CS Claystone
44	44							
46	46							
48	48							
50	50							
52	52							
54	54							
56	56							
58	58							

ESE, Inc. BORE EP-71 WELL(S)

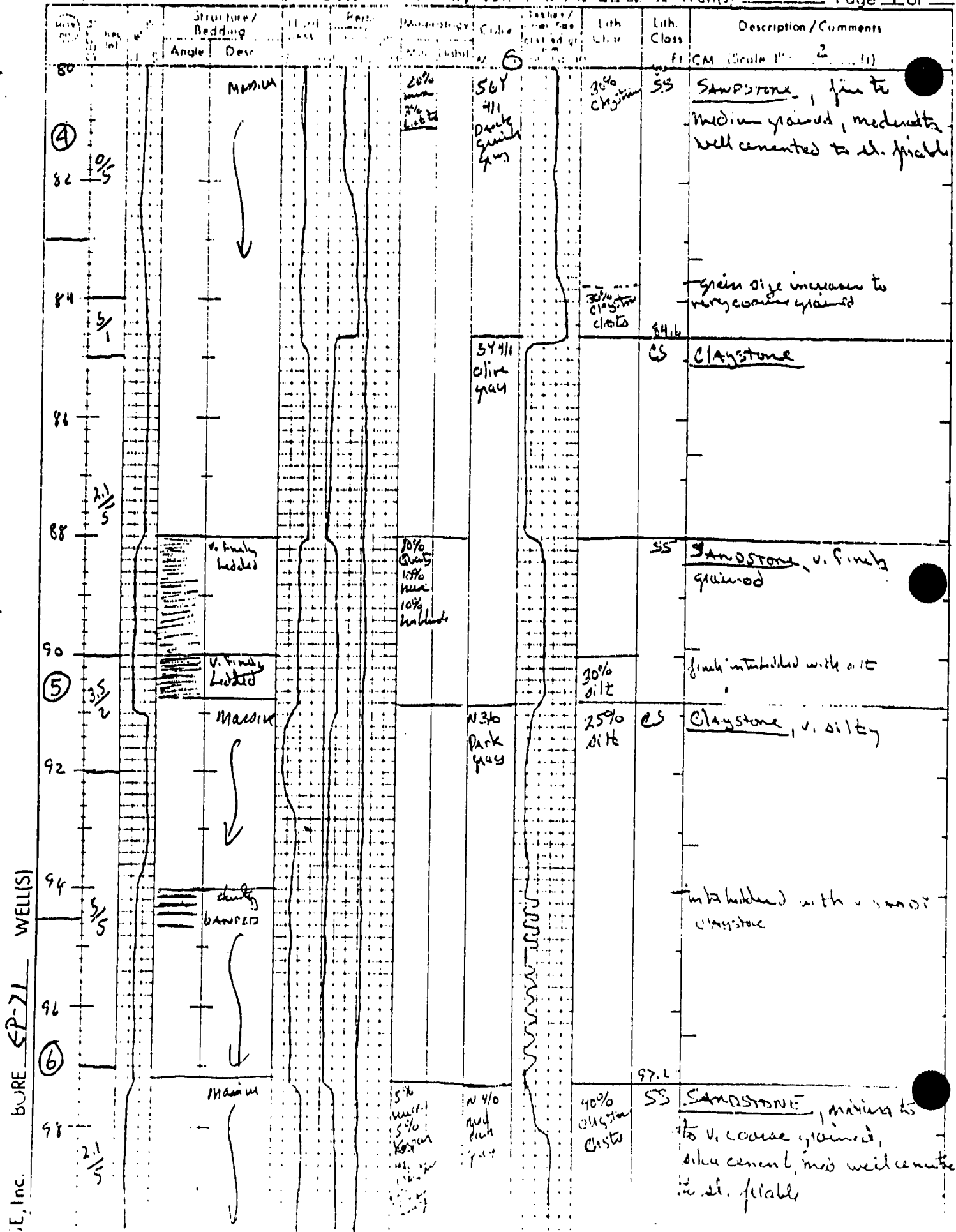
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OK

SY 912

L. Inc. EP-71 WELL(S)

Depth (ft)	Structure / Bedding	Hardness	Grain Size	Mineralogy	Color	Lith. Class	Description / Comments
60	massive			SY411 Olive gray	5% sand 10% silt	CS	Claystone
62				10% con 11% s 2% con 4% s	N410 Med dark gray	15% silt	oxidation boundary
64				N310 Dark gray	20% silt		
66				SY411 Olive gray			
68							
70							
72				5B511 Med. bluish gray			
74				10% con 10% s	N410 Med dark gray	10% sand 30% silt	sand % increases
76	thick bedded			N210 grayish black	30% claymin	SS	Sandstone, medium to coarse grained, moderately well cement to sh. friable
78				567 all greenish gray			friable
80				N210 Med	15% sand	ST	Siltstone, shaly



Depth (ft)	Stratigraphic Unit	Core Description	Grain Size	Grain Shape	Grain Color	Grain Orientation	Grain Size	Grain Shape	Grain Color	Grain Orientation	Grain Size	Grain Shape	Grain Color	Grain Orientation	Description / Comments
100															SS SANDSTONE
102															CS claystone
104															
106															
108															
110															
112															
114															
116															
118															
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192															
194															
196															
198															
200															

WELL(S)

EP-71

ESE, Inc.

Core No.	Depth (ft)	Structure / Bedding	Mineralogy	Lith Class	Description / Comments
		Angle			Scale 1" = 2' ft
720	120	V. finely bedded	56% dark gray	35% silt	CS Claystone
	122	Massive	41% dark gray	20% silt	v. finely interbedded with siltstone
	124		31% dark gray	10% silt	
8	126				
	128				
9	130				
Total drilled depth 130'					

ESE, Inc. BORE EP-71 WELL(S)



Frontier Logging

Lakewood, Colorado

Date OCT. 23, 1987

Core ID ESE

Core No EP-71

Area Project RMA

County ADAMS COUNTY

State COLORADO

Range - Elevation

Log Measured From

Ground Level

Drilling Measured From

Ground Level

Location

Lakewood

Unit No. 110
Operator Wm. Linton

Time in 1520 Time Out 1650

Driller Depth 129 FT

Bit Size 3 7/8"

Casing 22 FT PVC

Fluid in Hole active mud

Drilling Velocity

Drilling Measured From

Ground Level

EQUIPMENT DATA

TC Logged 125 1/2 Ft

200 Scale = 20 CPS per inch

2 Log Counters 15

103-1421 1 5/8" 3/4 x 1"

2.38 x 10⁻⁵ 7

Resistance 40 ohms/5"

S.P. 60 mV/Inch

NATURAL GAMMA RENDERS (ANALOG)

1st run - hole blocked @ 115 1/2'

2nd run in hole inside 96 Ft of drill pipe

open hole log 96 Ft - 125 1/2'

EQUIPMENT DATA

Gamma (Analog)

Gamma (Digital)

Caliper

Temperature

Neutron Source No

Type

DPS/Inch

True Vertical

Survey Depth

NATURAL GAMMA

20 CPS

S.P. 60 mV

RESISTANCE

40 OHMS/5 inches

NATURAL GAMMA

20 cps

Initial Log

S.P.

-60 mv

PRESTANDARD

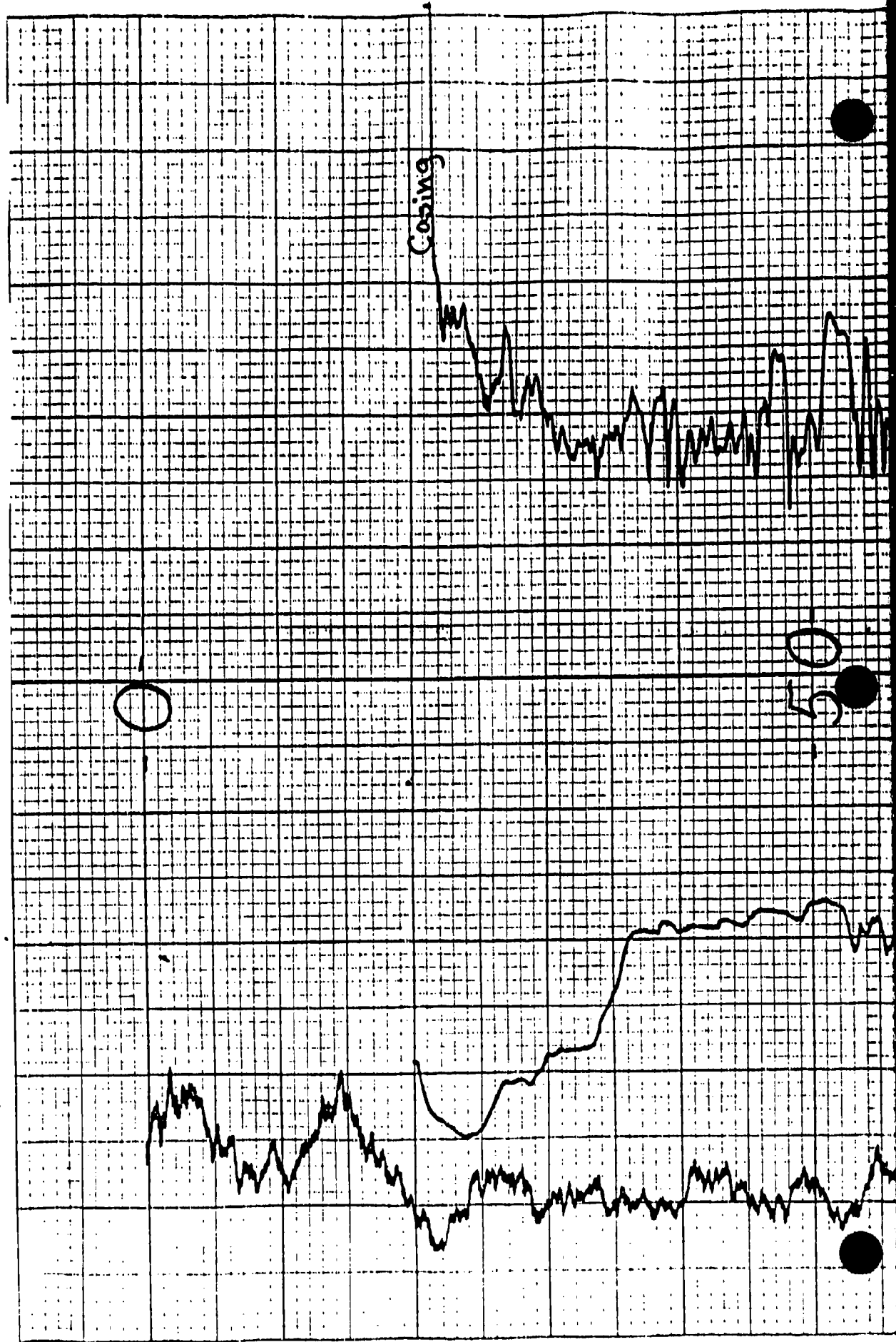
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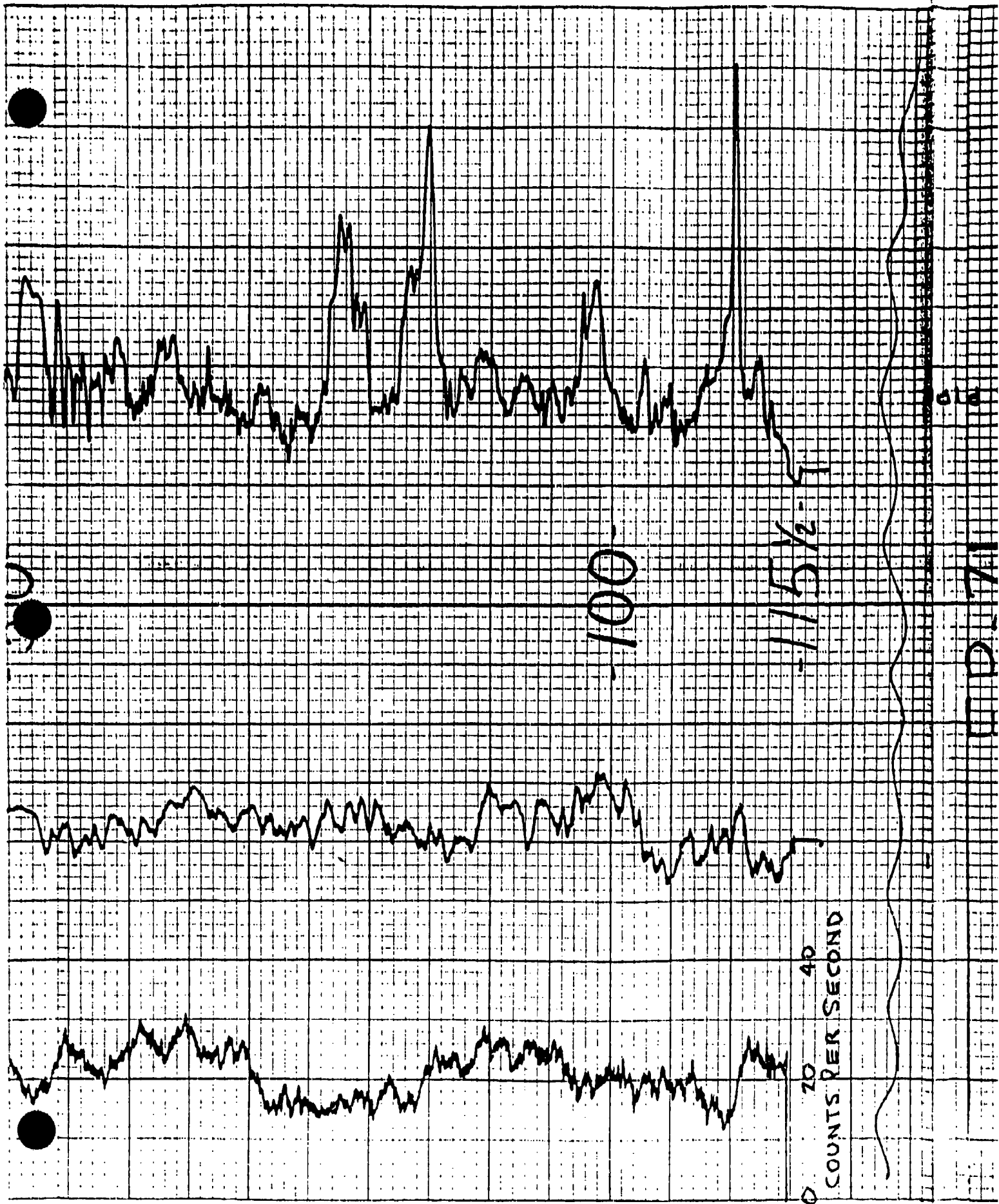
DRMS/5 inches

Survey Depth

True Vertical

Coring





100 71

COUNTS PER SECOND

COUNTS PER SECOND

NATURAL

GAMMA

- S.P.

60 MV/INCH

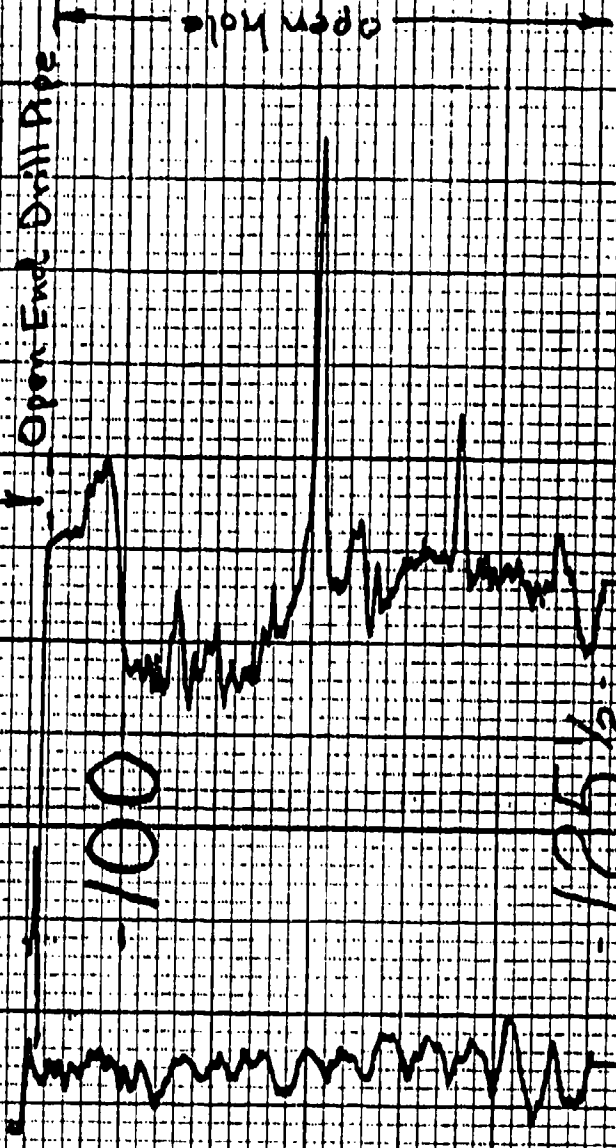
RESISTANCE

40 OHMS/5 INCHES

EP-71

-100

-125 1/2



WELL CONSTRUCTION SUMMARY

Borehole EP-71D1 Well 2323T^{SP} 22079
Project Name and Location Rural MW Installation / SENE SECT. 22 Project Number TW-44
Drilling Company BOYLES DRILLERS Driller BOB RENCH / DON IRVING Rig Number FRANK 150
Drilling Method(s) ROTARY

Borehole Diameter 11 1/2 in. _____ cm. _____ 0 ft. _____ cm. to 29.2 ft. _____ cm.
7 3/8 in. _____ cm. _____ 29 ft. _____ cm. to 96.5 ft. _____ cm.

Size(s) and types of Bit(s) 11 1/2" blade bit
7 3/8" blade bit.

Size and Type PVC 4" Schedule 40

Total Borehole Depth 96.10 ft. _____ cm.

Depth to Bedrock _____ ft. _____ cm.

Depth to Water N/A ft. _____ cm.

Water Level Determined By N/A

Length Plain PVC (total) 26.77 ft. _____ cm.

Length of Screen 10.93 ft. _____ cm.

Total Length of Well Casing 37.70 ft. _____ cm.

PVC Stick Up 1.57 ft. _____ cm.

Depth to Bottom of Screen 96.11 ft. _____ cm.

Depth to Top of Screen 75.18 ft. _____ cm.

Depth to Top of Sand 69.70 ft. _____ cm.

Depth to Top of Bentonite 64.40 ft. _____ cm.

Sampling Method(s) Not Sampled (see EP-71 circle)

Date/Time Start Drilling 12/23/87 0904

Date/Time Finish Drilling 01/06/88 1410

Date/Time Start Completion 01/06/88 1430

Date/Time Cement Protective Casing 12/23/87 1115

Materials Used 31.00 # 8 5/8" OD SDR35 casing

Plain PVC (7) 10 ft sections + 1 pc. 6.77 ft.

Slotted PVC 4 End caps + 10.93' (110 ft sect.)

Bentonite Pellets 3 bags (13)

Bentonite Granular 2 bags (145/105)

Cement 14 bags

Sand 4 bags

Water added during completion _____

Water added during drilling _____

Total Gallons of water added _____

Drill Site Geologist [Signature]

Date 01/07/88

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 01/07/88 1410 SPR

Date/Time/Personnel Casing Painted 3/21/88 1410 SPR

Date/Time/Personnel Numbers Painted 3/23/88 1450 SPR

Materials Used 9 bags of cement

Top of Protective Casing to Top of PVC 2.41 ft. _____ cm.

Top of Protective Casing to Weep Hole 1.05 ft. _____ cm.

Top of Protective Casing to Internal Mortar 1.62 ft. _____ cm.

Top of Protective Casing to Top of Cement Pad 1.66 ft. _____ cm.

Top of Protective Casing to Ground Level 1.90 ft. _____ cm.

COMMENT/NOTES

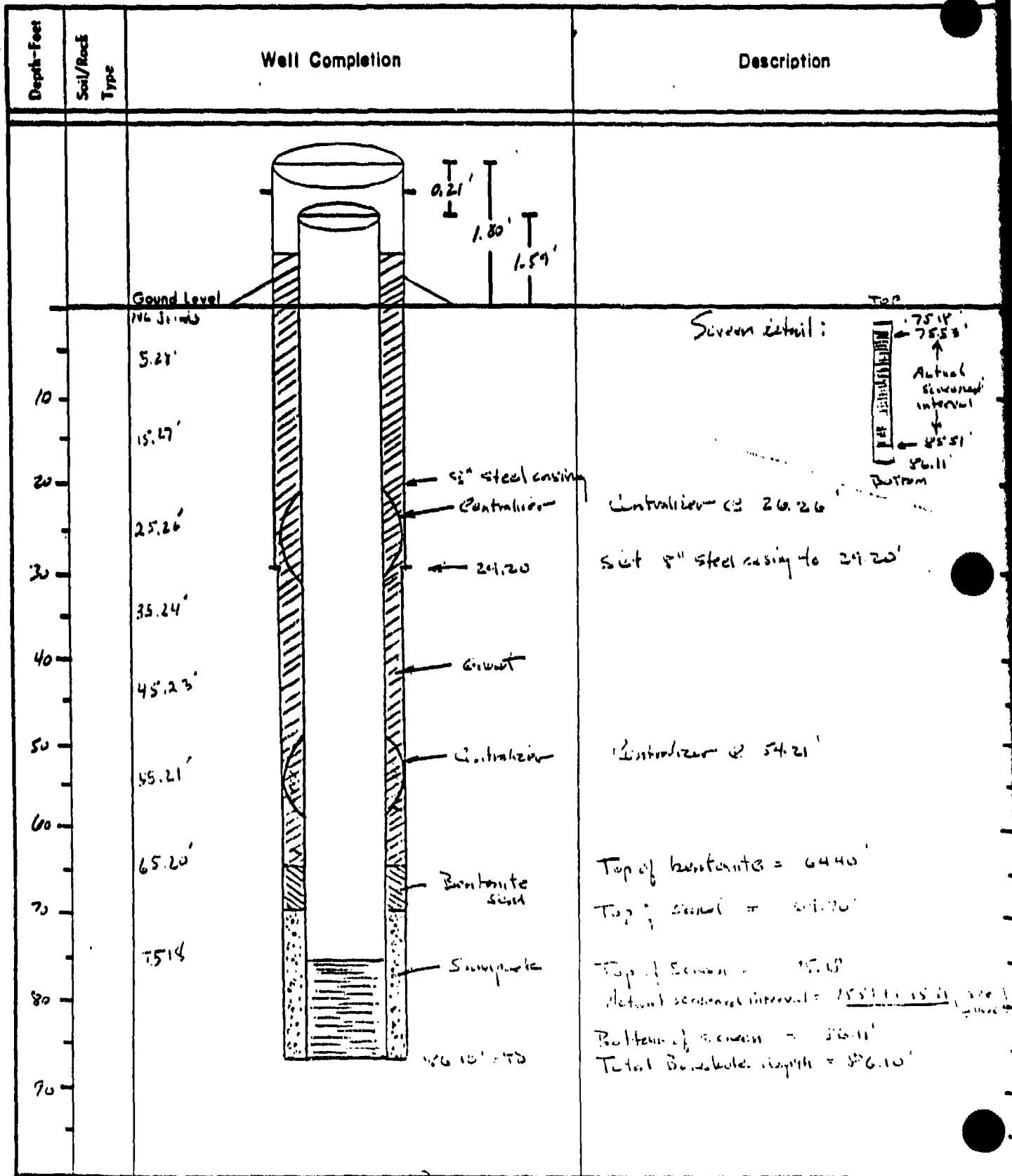
2' steel casing sticking - 1.00'

Reviewed By [Signature] Date 01/07/88

Drill Site Geologist [Signature] Date 01/07/88

Borehole: EP-71 D1

Well: 27257^{SP} 22079



Drill Site Geologist: [Signature]

Reviewed By: [Signature]

Date: 01/08/88

Date: 01/11/88

WELL DEVELOPMENT DATA

Bore EP-71 D1 Well 22079

Project PMH ON-POST Project Number TASK 44

Date(s) Developed 3/2/88 Date Installed 01/06/88

Personnel (Name/Company) TR/LEE BIV/LEE Well Diameter (I.D.) 4 in.

Rig Used FREE WITH SERVICE TRUCK Annulus Diameter 11 1/2 in. 0 ft. to 24.2 ft.

Pump (Type/Capacity) GRUNDOS / 5 GPM 7 1/2 in. 24 ft. to 86.5 ft.

Bailer (Type/Capacity) N/A Screen Interval 75.8 ft. to 36.1 ft.

Water Source PMH Casing Height (Above G.L.) 1.59 ft.

Measured Well Depth TOC (Initial) 76.0 ft. Bottom of Screen (Below G.L.) 86.1 ft.

(Final) 82.9 ft.

Water Level TOC/Date/Time (Initial) 22.65 / 3-9-88 / 1010

(after 24 hrs.) 36.6 / 4-4-88 / 1215

Feet of Water in Well 53.95 ft. x 0.653 gallons/foot = 35.23 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 49.23 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 250 gallons

Added Water 0 gallons Total Purge Volume 140 gallons

Casing/Annulus Volume 35.23 gallons Volume Measured By SS ONION ZIMMER

Surge Technique RISE / LOWER 10.44"

Calibration: pH Meter Used: Precision p21 SN 010244

pH 7.00 7.01 at 18.2 °C, pH 10.00 = 10.05 at 18.3 °C

Conductance Meter Used: YSI model 32 SN: 2443

Standard 14.2 umhos/cm at 25°, Reading 14.2 umhos/cm at 75 °C

Purge Volume gallons	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial	1624	14.6	11.84	1452	murky, viscous w/ gray silt, black claystone chips
10	1628	13.1	11.33	1026	very cloudy w/ gray silt, less viscous black claystone chips
20	1633	13.4	11.36	1000	very cloudy w/ gray silt, less viscous black claystone chips
30	1639	13.1	11.44	1081	very cloudy w/ gray silt, less viscous black claystone chips
<hr/>					
Final					

Remarks: Pump is packed w/ gray clay upon removal. Sample = 86.11 = Bottom of Screen

Pump in hole Pump at 1630 for recharge / 49.23 = Top of Screen

1648 Pump in - no more water 14.2 x 35.23 gal = 494

Well still has 7.85 ft clay in bottom. well depth measured 77.85 now

x 1 Pump vol. 35.23 casing vol. Collected by Al Date 3/2/88

+ 14 gal sample vol. Checked by Al Date 3/2/88

49.23 = 50

WELL DEVELOPMENT DATA

Bore EP-7101 Well 22079

Project RMA OH POST Project Number Task 4A

Date(s) Developed 3-10-88 Date Installed 01-06-88

Personnel (Name/Company) DLW/ESE Well Diameter (I.D.) 4" in.

RR/ESE BW/ESE Anulus Diameter 11 1/2 in. 0 ft. to 24.2 ft.

Rig Used ESE Well Service Truck 7 7/8 in. 29 ft. to 86.5 ft.

Pump (Type/Capacity) Grundfos / 56 GPM Screen Interval 75.18 ft. to 86.11 ft.

Bailer (Type/Capacity) N/A ft. to ft.

Water Source RMA Casing Height (Above G.L.) 1.54 ft.

Measured Well Depth TOC (Initial) 76.60 ft. Bottom of Screen (Below G.L.) 86.11 ft.

(Final) 97.9 ft.

Water Level TOC/Date/Time (Initial, 22.65/3-9-88/1610

(after 24 hrs.) 36.6/4-4-88/1215

Feet of Water in Well 53.95 ft. x 2.653 gallons/foot = 35.23 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 50 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 250 gallons

Added Water 0 gallons Total Purge Volume 140 gallons

Casing/Anulus Volume 35.23 gallons Volume Measured By 55 Cole Borel

Surge Technique Raise/Lower Pump

Calibration: pH Meter Used: Beckman 021 SN # 116344

pH 7.00 = 7.16 at 9.1 °C, pH 10.00 = 10.19 at 25.0 °C

Conductance Meter Used: YSI Model 33 SN # 260-3

Standard 1413 umhos/cm at 25°, Reading 1414 umhos/cm at 25.0 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
(0) 30	11:53	9.3°	10.14	3060	Muddy, blackish w/ Gray silt, black clay
(5) 35	11:56	10.2°	9.99	3250	thick, cloudy, w/ silt, black clay
(14) 44	12:01	12.1°	10.27	2700	4" ... w/ silt, black clay
Final					

Remarks: Water level = 59.84, measured well depth to clean rock = 78.0

Pump On 1150 / Pump Off for recharging 1200 / 1350 3 more operations

1 Purge Vol = 35.23 casing Collected by DLW 3/10/88 Date

14.23 Sandpack Checked by DLW Signature DLW Date

24.23 - 50 ft

WELL DEVELOPMENT DATA

Bore EP71D1 Well 22079
 Project RMA on Post Project Number Task 44
 Date(s) Developed 3-10-88 Date Installed 01-06-88
 Personnel (Name/Company) RR/ESE BLV/ESE Well Diameter (I.D.) 4 in.
 Anulus Diameter 1 1/2 in. 0 ft. to 29.2 ft.
7 7/8 in. 29 ft. to 86.5 ft.
 Screen Interval 75.18 ft. to 86.11 ft.
 Casing Height (Above G.L.) 1.59 ft.
 Bottom of Screen (Below G.L.) 86.11 ft.
 Rig Used ESE Well Service Truck
 Pump (Type/Capacity) Grundfos / 5 GPM
 Bailor (Type/Capacity) N/A
 Water Source RMA
 Measured Well Depth TOC (Initial) 76.60 ft.
 (Final) 87.9 ft.
 Water Level TOC/Date/Time (Initial) 22.65 / 3-9-88 / 1610
 (after 24 hrs.) 36.6 / 4-4-88 / 1215
 Feet of Water in Well 53.95 ft. x .653 gallons/foot = 35.23 gallons casing/anulus volume
 Drilling Fluid Lost N/A gallons # One Purge Volume 50 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 350 gallons
 Added Water 0 gallons Total Purge Volume 146 gallons
 Casing/Anulus Volume 35.23 gallons Volume Measured By 55 Gal. barrel
 Surge Technique Raise and lower plunger
 Calibration: pH Meter Used: Beckman # 21 SN: 016344
 pH 7.00 = 204 at 13.3 °C. pH 10.00 = 10.14 at 13.33 °C
 Conductance Meter Used: YST Model 32 SN 2603
 Standard 1413 umhos/cm at 25°. Reading 1411 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 44	10:09	9.3	9.11	3990	Muddy w. gray silt and black sand
(5) 49	10:14	4.7	9.43	4580	Cloudy w. silt and fine sand
(9) 53	10:17	9.4	9.20	4350	Becoming less cloudy w. gray silt & sand
Required					
Final					

Remarks: Water level = 68.10 well depth = 87.9 clean pump 1000 umhos/cm
de-aerated in 90 gallons

1 Purge Vol = 35.23 gallons Collected by John Winters 7-11-88 Date
14.00 Sampled Checked by _____ Signature _____ Date _____
69.22

WELL DEVELOPMENT DATA

Bore EP-7101 Well 32079

Project RMA ON -105T Project Number TASK 44

Date(s) Developed 3/14/88 Date Installed 01/06/88

Personnel (Name/Company) DLW/ESE Well Diameter (I.D.) 4 in.

BW/ESE Annulus Diameter 4 1/2 in. 0 ft. to 39.2 ft.

Rig Used ESE WIRE LINE TRUCK Screen Interval 7 7/8 in. 29 ft. to 86.5 ft.

Pump (Type/Capacity) ORION 50 GPM Casing Height (Above G.L.) 1.57 ft.

Bailer (Type/Capacity) N/A Bottom of Screen (Below G.L.) 86.11 ft.

Water Source RMA

Measured Well Depth TOC (Initial) 76.60 ft.

(Final) 87.9 ft.

Water Level TOC/Date/Time (Initial) 22.65 / 3-9-88 / 1610

(after 24 hrs.) 36.6 / 4-4-88 / 1215

Feet of Water in Well 53.95 ft. x 40.5 gallons/foot = 35.23 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 50 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 350 gallons

Added Water 0 gallons Total Purge Volume 140 gallons

Casing/Annulus Volume 35.23 gallons Volume Measured By 50 GPM ORION PUMP

Surge Technique RATE / VOLUME PUMP

Calibration: pH Meter Used: ORION SA 230 SN

pH 7.00 = 7.00 at 9.8 °C, pH 10.00 = 10.00 at 10.1 °C

Conductance Meter Used: TSC MODEL 32 SN. 2002

Standard 1413 umhos/cm at 25°, Reading 1415 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 53	0953	10.8	8.73	4980	Very cloudy w/ grey silt - clay Some blackish green
58	0957	11.1	8.60	5040	Cloudy w/ more grey - brown silt settling in bottom
63	0940	11.2	8.52	5110	Cloudy w/ less silt
68	0943	11.0	8.41	5080	Cloudy w/ less silt - brownish green
73	0946	12.1	8.57	4040	Cloudy w/ grey - brown silt - some settling
Final 77	0946	12.1	8.00	4810	Cloudy w/ grey - brown silt - some settling

Remarks: water level = 48.50 DEWATERED 10 24 GALLONS

Measured total water = 87.35' ORION Pump / 50 GPM Pump

* 1 Purge vol = 35.23 casing
14.0 Surge water
49.23 = 750 gal.

Collected by [Signature] 3/14/88

Checked by [Signature] Signature Date

WELL DEVELOPMENT DATA

Bore EP-71D1 Well 22079

Project RMA ON-POST Project Number TACK 44

Date(s) Developed 2/15/88 Date Installed 1-6-83

Personnel (Name/Company) DW/ESSE Well Diameter (I.D.) 4 in.

BW/ESSE Annulus Diameter 11 1/2 in. 0 ft. to 29.6 ft.

Rig Used ESE WELL SERVICE TRUCK Screen Interval 7 3/4 in. 29 ft. to 86.5 ft.

Pump (Type/Capacity) N/A Casing Height (Above G.L.) 1.57 ft.

Bailer (Type/Capacity) 3 1/2" x 20' Bottom of Screen (Below G.L.) 86.11 ft.

Water Source RMA

Measured Well Depth TOC (Initial) 76.60 ft.

(Final) 87.9 ft.

Water Level TOC/Date/Time (Initial) 22.65 / 3-9-88 / 1610

(after 24 hrs.) 36.6 / 4-4-88 / 1215

Feet of Water in Well 53.95 ft. x .653 gallons/foot = 35.23 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons

Purge Water Lost N/A gallons

Added Water 0 gallons

Casing/Annulus Volume 35.23 gallons

One Purge Volume 50 gallons

Minimum Purge Volume 250 gallons

Total Purge Volume 140 gallons

Volume Measured By 55 Gallons Displaced / 56.2.8

Surge Technique RAILINOR

Calibration: pH Meter Used: ORION 3A-23C SN 1064

pH 7.00 = 7.00 at 10.3 °C, pH 10.00 = 12.00 at 11.4 °C

Conductance Meter Used: YSI Model 32 SN: 7003

Standard 1413 umhos/cm at 25°, Reading 1412 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
77	1002	12.4	8.29	5170	very cloudy w/ green silt
83	1016	12.8	8.56	5030	some green clay chunks
87	1023	12.5	8.69	5010	very cloudy w/ much green silt settling out
92	1030	12.5	8.74	4930	very cloudy w/ much green silt - settling out
98	1039	12.5	8.86	4850	same as above
Final					

Remarks: Water level = 64.94 Recharged in 24 gallons / recharge to 2.6 and 1.5

Tip reading (700) = 5.7 gpm Measuring total depth = 87.85 (5.1m)

Collected by _____ Date 2/15/88

Checked by _____ Signature _____ Date _____

21423 => 5.7 gpm

WELL DEVELOPMENT DATA

Bore EP-7101 Well 22079
Project Rmt on lot Project Number TA 51C 44
Date(s) Developed 3-16-88 Date Installed 1-6-88
Personnel (Name/Company) DW / ESE Well Diameter (I.D.) 4 in.
BW / ESE Annulus Diameter 11 1/2 in. 0 ft. to 24.2 ft.
7 3/4 in. 24 ft. to 86.5 ft.
Rig Used ESE with SERVICE TOWER Screen Interval 75.18 ft. to 86.11 ft.
Pump (Type/Capacity) N/A Casing Height (Above G.L.) 1.57 ft.
Bailer (Type/Capacity) 3.85" x 2.0' Bottom of Screen (Below G.L.) 86.11 ft.
Water Source EMA

Measured Well Depth TOC (Initial) 76.60 ft.
(Final) 87.9 ft.
Water Level TOC/Date/Time (Initial) 22.05 / 3-9-88 / 1610
(after 24 hrs.) 36.6 / 4-4-88 / 1215

Feet of Water in Well 53.95 ft. x 1.653 gallons/foot = 35.23 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons * One Purge Volume 50 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 250 gallons
Added Water 0 gallons Total Purge Volume 146 gallons
Casing/Annulus Volume 35.23 gallons Volume Measured By 5 GAL. BUCKET
Surge Technique BRILINE

Calibration: pH Meter Used: ORION SA 230 SM: 1064
pH 7.00 = 7.00 at 26 °C, pH 10.00 = 10.00 at 30 °C
Conductance Meter Used: YSI MODEL 72 SN: 2603
Standard 200 umhos/cm at 25°, Reading 111 umhos/cm at 25 °C
1000 1000

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>98</u>	<u>0925</u>	<u>10.6</u>	<u>8.21</u>	<u>5340</u>	<u>cloudy w/ grey silt</u>
<u>103</u>	<u>0938</u>	<u>9.6</u>	<u>8.34</u>	<u>5270</u>	<u>very cloudy w/ grey silt</u>
<u>108</u>	<u>0955</u>	<u>8.5</u>	<u>8.37</u>	<u>5220</u>	<u>very cloudy w/ much grey silt settling out</u>
<u>113</u>	<u>1008</u>	<u>10.9</u>	<u>8.41</u>	<u>5150</u>	<u>very cloudy w/ much grey silt settling out</u>
<u>118</u>	<u>1034</u>	<u>10.1</u>	<u>8.62</u>	<u>5090</u>	<u>very cloudy w/ much grey silt settling out</u>
Final					<u>low</u>

Remarks: Water level = 65.07 Downed in ~ 20 gallons but has a 0.20 oz/s discharge
Measured TD = 87.9 Use bladder pump to sample

✓ 1 Purge vol 35.23 casing 140 sample
44.23 ⇒ 50 gal
Collected by [Signature] 3/16/88 Date
Checked by [Signature] Signature Date

EP-7121

Well 22079

Project Number TRISK 44

Date Installed 1-6-58

Well Diameter (I.D.) 4 in.

Anulus Diameter 11 1/2 in. 0 ft. to 29 ft.

2 3/4 in. 29 ft. to 36.5 ft.

Screen Interval 75.18 ft. to 36.11 ft.

 ft. to ft.

Casing Height (Above G.L.) 1.57 ft.

Bottom of Screen (Below G.L.) 36.11 ft.

Calibration: pH Meter Used: ORION SM 230 SN 1064
pH 7.00 = 7.00 at 87 °C, pH 10.00 = 10.00 at 87 °C
Conductance Meter Used: YSI MODEL 32 SN 3603
Standard 1413 umhos/cm at 25°, Reading 1411 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25 °C	Physical Characteristics (clarity, odor, sand content, color)
Initial 118	0856	10.9	8.02	5210	Slightly cloudy, some silt.
128	0907	11.7	8.05	5270	Slightly cloudy, some silt.
132	0916	11.7	8.04	5180	Cloudy w/ bottom silt.
140	0925	11.8 12.0	8.12	5210	Very cloudy w/ bottom silt settling of sand.
Final 146	0944	11.8	8.51	5080	Very cloudy w/ bottom silt cloudy of sand, some silt.
Final 20					

Dewatered in 38 spiders.

DEVELOPMENT FINALIZED 1 FEB 3 CONSECUTIVE MEETING SEWATEZU

Remarks: Water level = 55.12 53.63 m Dredging 1942 Final casting
11.4 m Water level = 55.12 53.63 m Dredging 1942 Final casting
11.4 m Water level = 55.12 53.63 m Dredging 1942 Final casting

Collected by _____ Signature _____ Date _____
Checked by _____ Signature _____ Date _____

WELL CONSTRUCTION SUMMARY

Borehole EP-71 D2 Well 22080
 Project Name and Location RMA MW Installation / SENE SEC. 22 Project Number TASTE 44
 Drilling Company Boyles Bros. Driller Bub Roush Rig Number Falling 1500
 Drilling Method(s) Rotary

Borehole Diameter 11 3/4 in. _____ cm. _____ 0 ft. _____ cm. to _____ 91 ft. _____ cm.
7 7/8 in. _____ cm. _____ 91 ft. _____ cm. to _____ 102 ft. _____ cm.

Size(s) and types of Bit(s) 11 3/4" blade bit
7 7/8" blade bit

Size and Type PVC 4" Schedule 40

Total Borehole Depth 103.8 ft. _____ cm.

Depth to Bedrock _____ ft. _____ cm.

Depth to Water _____ ft. _____ cm.

Water Level Determined By _____

Length Plain PVC (total) 97.89 ft. _____ cm.

Length of Screen 5.81 ft. _____ cm.

Total Length of Well Casing 103.70 ft. _____ cm.

PVC Stick Up 2.0 ft. _____ cm.

Depth to Bottom of Screen 101.70 ft. _____ cm.

Depth to Top of Screen 95.89 ft. _____ cm.

Depth to Top of Sand 92.88 ft. _____ cm.

Depth to Top of Bentonite 85.68 ft. _____ cm.

Sampling Method(s) Not Sampled (See EP-71 coring)

Date/Time Start Drilling 1-11-88 / 0417

Date/Time Finish Drilling 1-13-88 / 1215

Date/Time Start Completion 1-13-88 / 1345

Date/Time Cement Protective Casing 1-12-88 / 1015

Materials Used 93.99' 3" Steel casing

Plain PVC 10 sections (97.89') Schedule 40-4

Slotted PVC (1) 5' section + endcap = 5.81'

Bentonite Pellets 1.5 buckets

Bentonite Granular 7.7 bags (50 lb bags)

Cement 37 bags (90 lb bags)

Sand 1.5 bags (90 lb bags)

Water ^{circulated} added during completion ~ 100 gallons

Water added during drilling 0

Total Gallons of water added 0

Drill Site Geologist [Signature]

Date 01/14/88

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed PAD 3-18-88 11:15

Date/Time/Personnel Casing Painted 3/21/88 10:00 S.M.P. 122

Date/Time/Personnel Numbers Painted 3/23/88 1450 122 122

Materials Used 10 bags schedule

Top of Protective Casing to Top of PVC 0.10 ft. _____ cm.

Top of Protective Casing to Weep Hole 1.40 ft. _____ cm.

Top of Protective Casing to Internal Mortar 1.45 ft. _____ cm.

Top of Protective Casing to Top of Cement Pad 1.40 ft. _____ cm.

Top of Protective Casing to Ground Level 2.10 ft. _____ cm.

COMMENT/NOTES

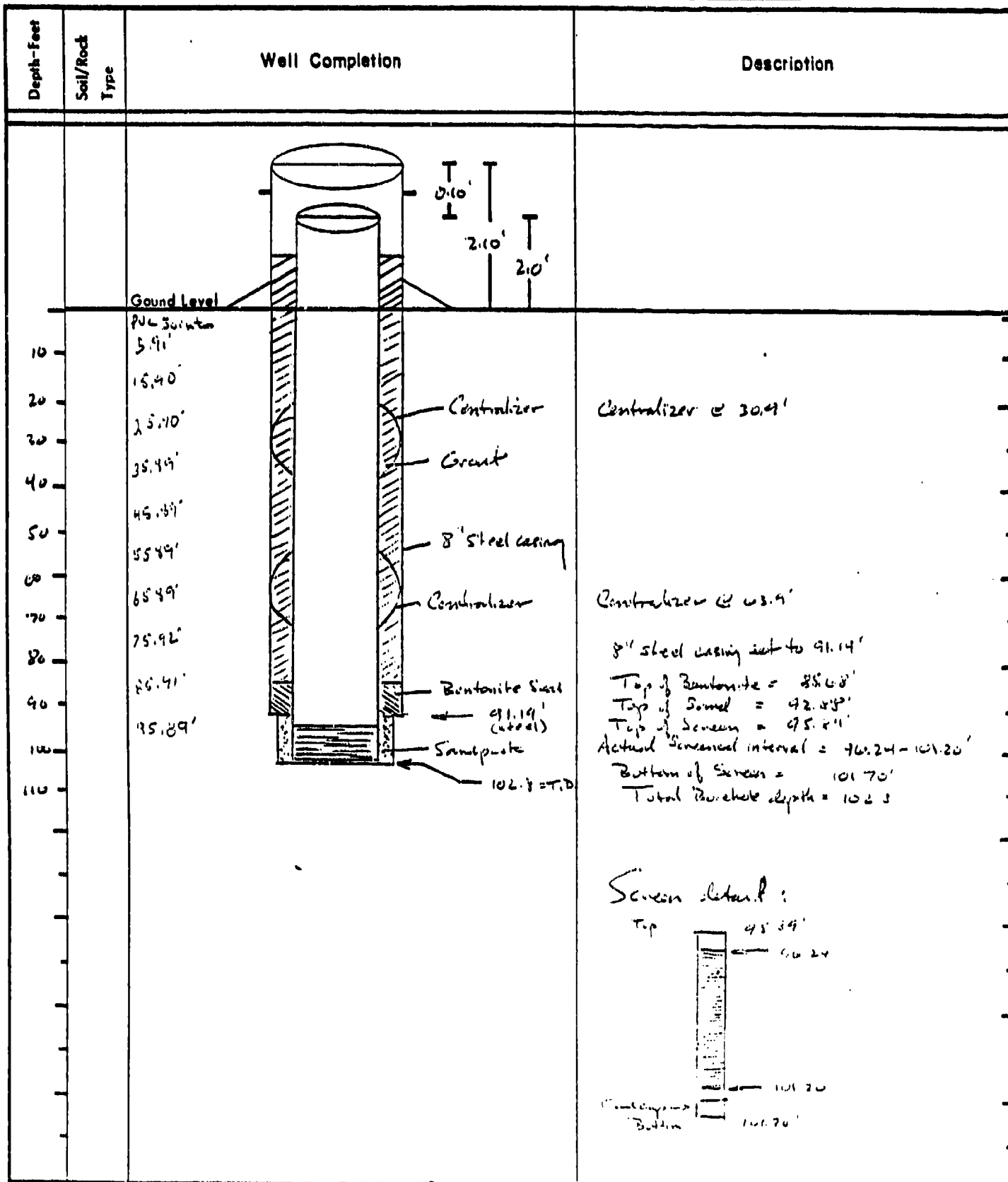
3" Steel casing slotted 2'

Reviewed By [Signature] Date 1-11-88

Drill Site Geologist [Signature] Date 01/14/88

Borehole: EP-71D2

Well: 22080



Drill Site Geologist: [Signature]
Reviewed By: [Signature]

Date: 10/10/98
Date: 10/10/98

WELL DEVELOPMENT DATA

Bore EP-7172 Well 22050

Project RMA ON-POST Project Number TASK 44

Date(s) Developed 3-9-88 Date Installed 1/13/88

Personnel (Name/Company) RR/ESE BW/ESE Well Diameter (I.D.) 4" in.

Rig Used ESE WEL SERVICE TRUCK Annulus Diameter 1 3/4 in. 0 ft. to 91 ft.

Pump (Type/Capacity) _____ Screen Interval 7 3/4 in. 91 ft. to 102 ft.

Bailer (Type/Capacity) _____ Casing Height (Above G.L.) 2.0 ft.

Water Source RMA Bottom of Screen (Below G.L.) 101.70 ft.

Measured Well Depth TOC (Initial) 102.5 ft. (Final) 103.85 ft.

Water Level TOC/Date/Time (Initial) 36.10 / 3-9-88 / 1510 / RW
(after 24 hrs.) 43.7 / 4-4-88 / 1443

Feet of Water in Well 66.4 ft. x 0.653 gallons/foot = 43.36 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons * One Purge Volume 52 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 256 gallons

Added Water 0 gallons Total Purge Volume 1349 gallons

Casing/Annulus Volume 43.36 gallons Volume Measured By SS WEL SERVICE

Surge Technique PM 12 / LOWER PUMP

Calibration: pH Meter Used: Beckman 21 pH Meter SN 016344
pH 7.00 = 7.02 at 20.0 °C, pH 10.00 = 10.07 at 19.7 °C
Conductance Meter Used: YST Model 32 SN 2603
Standard 1413 umhos/cm at 25°, Reading 1414 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
0	1521	14.6	12.32	6070	Cloudy w/ floating
10	1524	13.4	12.16	5200	becoming clearer w/ time
20	1528	14.0	12.20	5200	Sand and chips of casing
30	1537	14.6	12.33	4110	Mostly clear w/ fine
40	1545	14.1	12.40	3720	clear
Final 42	1558	15.0	12.38	3730	clear

Well developed in 42 gallons Sand present = 101.70 - But of screen
Remarks: Water level = 36.10 Start of pumping 1510
Pump off 2:15:45 for recharge Pump on 15:55:11
Pump off 15:57:11

* 1 Purge vol: 2.56 gallons
2.56 gal. Sand present
51.35

Collected by [Signature] Date 3-9-88

Checked by [Signature] Date 3-9-88

WELL DEVELOPMENT DATA

Bore EA 7102 Well 22000

Project RMH ON-POST Project Number TASK 44

Date(s) Developed 3/10/88 Date Installed 1/13/88

Personnel (Name/Company) DW/ESE Well Diameter (I.D.) 4 in.

RR/ESE BW/ESE Annulus Diameter 11 3/4 in. 0 ft. to 91 ft.

Rig Used ESE WEL SERVICE TRUCK Screen Interval 7 3/8 in. 91 ft. to 102 ft.

Pump (Type/Capacity) GRUNDFOS / 56PM Screen Interval 95.79 ft. to 101.78 ft.

Bailer (Type/Capacity) N/A Casing Height (Above G.L.) 2.0 ft.

Water Source RMH Bottom of Screen (Below G.L.) 101.78 ft.

Measured Well Depth TOC (Initial) 102.5 ft.
(Final) 103.85 ft.

Water Level TOC/Date/Time (Initial) 36.10 / 3-9-88 / 1510
(after 24 hrs.) 43.7 / 4-4-88 / 1443

Feet of Water in Well 66.4 ft. x 653 gallons/foot = 4336 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons * One Purge Volume 52 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 256 gallons

Added Water 0 gallons Total Purge Volume 157 gallons

Casing/Annulus Volume 4336 gallons Volume Measured By 55 GALLON TAREL

Surge Technique RAISE / LOWER PUMP

Calibration: pH Meter Used: BECKMAN 21 SN: 016744
pH 7.00 = 7.10 at 3.3 °C. pH 10.00 = 10.28 at 2.9 °C
Conductance Meter Used: YSI model 72 SN: 2603
Standard 14.3 umhos/cm at 25°, Reading 1412 umhos/cm at 2.5 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 42	1430	10.6	12.17	5710	cloudy w/ grey silt, fine sand, small grains of silt.
(9) 52	1433	9.9	12.06	5180	partly cloudy, some fine sand & silt grains.
(15) 57	1435	10.02	12.08	5170	slightly cloudy, some silt (fine).
(17) 59	1439	9.3	12.13	5160	lighter cloudy - grey - some silt. sediment at bottom.
Final					

Remarks: Water level = 72.61 Measured well depth = 103.69'
Pump on 1425 / 1438 Pump off Dewatered in 17 strokes.

* 1 Purge vol. = 43.41 casing vol. Collected by [Signature] Date 10/88
+ ? Sand/annulus vol. Checked by [Signature] Date 10/88
51.35 = 52 gallons

WELL DEVELOPMENT DATA

Bore EP 71 D 2 Well 22080

Project RMA On-Past Project Number Task 44

Date(s) Developed 3-11-88 Date Installed 1-13-88

Personnel (Name/Company) RR/ESE BW/ESE Well Diameter (I.D.) 4 in.

Anulus Diameter 11 3/4 in. 0 ft. to 91 ft.

Rig Used ESE Well Service Truck 9 7/8 in. 91 ft. to 102 ft.

Pump (Type/Capacity) Grundfos / 5 GPM Screen Interval 95.6 ft. to 101.70 ft.

Bailer (Type/Capacity) N/A ft. to ft.

Water Source RMA Casing Height (Above G.L.) 2.0 ft.

Measured Well Depth TOC (Initial) 102.5 ft. Bottom of Screen (Below G.L.) 101.70 ft.

(Final) 103.85 ft.

Water Level TOC/Date/Time (Initial) 36.10 / 3-9-88 / 1510

(after 24 hrs.) 43.7 / 4-4-88 / 1443

Feet of Water in Well 66.14 ft. x 65.3 gallons/foot = 43.36 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 52 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 256 gallons

Added Water 0 gallons Total Purge Volume 139 gallons

Casing/Anulus Volume 43.36 gallons Volume Measured By 55 Gallon Barrel

Surge Technique water / lower - Pump

Calibration: pH Meter Used: Beckman 21 SN: 016344

pH 7.00 = 7.04 at 13.3 °C. pH 10.00 = 0.14 at 13.33 °C

Conductance Meter Used: YST Model 32 5.0 2603

Standard 1413 umhos/cm at 25°, Reading 14.11 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>59</u>	<u>1052</u>	<u>10.4</u>	<u>1194</u>	<u>5040</u>	<u>Cloudy w/ grainy Silt, fine</u>
<u>(5)</u>	<u>64</u>	<u>1056</u>	<u>10.4</u>	<u>1215</u>	<u>5240</u>
					<u>Slightly cloudy</u>
<u>14</u>	<u>65</u>	<u>1059</u>	<u>10.3</u>	<u>1195</u>	<u>5060</u>
					<u>Mostly clear w/ fine</u>
					<u>particles</u>
Final					

Remarks: Water level = 91.39 Start pump 1000 Stop pump 1000

Volume = 9 gallons

1. Purge Vol. = 43.4 gallons Collected by RR/ESE 3-11-88

51.4 52 gallons Checked by RR/ESE 3-11-88

Signature _____ Date _____

WELL DEVELOPMENT DATA

Bore EP-71D2 Well 22080
Project RMA ON-POST Project Number TASK 44
Date(s) Developed 3-14-88 Date Installed 1-13-88
Personnel (Name/Company) DW / ESE Well Diameter (I.D.) 4 in.
BW / ESE Anulus Diameter 16 3/4 in. 0 ft. to 91 ft.
7 1/8 in. 91 ft. to 102 ft.
Rig Used ESE WELL SERVICE TRUCK Screen Interval 95.87 ft. to 101.70 ft.
Pump (Type/Capacity) GRUNDFOS / 50 GPM Casing Height (Above G.L.) 20 ft.
Bailer (Type/Capacity) N/A Bottom of Screen (Below G.L.) 101.70 ft.
Water Source RMA
Measured Well Depth TOC (Initial) 102.5 ft.
(Final) ft.
Water Level TOC/Date/Time (Initial) 36.10 / 3-9-88 / 1510
(after 24 hrs.) 43.7
Feet of Water in Well 66.4 ft. x 1.653 gallons/foot = 4336 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons * One Purge Volume 52 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 256 gallons
Added Water 0 gallons Total Purge Volume 134 gallons
Casing/Anulus Volume 4336 gallons Volume Measured By SS UNOWN TAREL
Surge Technique RAISE / LOWER PUMP
Calibration: pH Meter Used: ORION 2A 230 SN: 1064
pH 7.00 = 10.00 at 14.0 °C, pH 10.00 = 10.00 at 14.6 °C
Conductance Meter Used: TSE MODEL 72 SN 6003
Standard 1413 umhos/cm at 25°, Reading 1409 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 68	1046	12.7	12.08	6110	murky clear w/ some silt & fine sand
73	1049	12.6	11.60	5640	clear, a few fine sand grains
83	1059	12.5	11.53	4580	clear, no sediment
85	1101	12.5	11.59	4560	very slightly cloudy w/ fine med sand, black clay-like
Final					

Remarks: Water level = 65.66 Pump on 1041 / Pump off 1102.
Measured total depth = 103.75

* 1 Purge vol. 434 casing vol.
5 sand paste
51.4 ⇒ 52 gallons

Collected by [Signature] 3/14/88 Date
Checked by [Signature] Signature Date

WELL DEVELOPMENT DATA

Bore EP-7172 Well 22080

Project PAID ON-POST Project Number TASK 44

Date(s) Developed 3/15/88 Date Installed 1-13-88

Personnel (Name/Company) DLW / ESE Well Diameter (I.D.) 4 in.

BW / ESE Annulus Diameter 11 3/4 in. 0 ft. to 91 ft.

Rig Used ESE WELL SERVICE TRUCK Screen Interval 7 3/4 in. 91 ft. to 102 ft.

Pump (Type/Capacity) N/A 95.59 ft. to 101.70 ft.

Bailer (Type/Capacity) 385" X 2.0 ft. to ft.

Water Source RMWA Casing Height (Above G.L.) 2.0 ft.

Measured Well Depth TOC (Initial) 102.5 ft. Bottom of Screen (Below G.L.) 101.70 ft.

(Final) ft.

Water Level TOC/Date/Time (Initial) 36.10 / 3-4-88 / 1510

(after 24 hrs.)

Feet of Water in Well 66.4 ft. x 1.653 gallons/foot = 43.16 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons * One Purge Volume 52 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 356 gallons

Added Water 0 gallons Total Purge Volume 137 gallons

Casing/Annulus Volume 43.36 gallons Volume Measured By S. GILSON TRUCKER

Surge Technique TRILINO

Calibration: pH Meter Used: ORION SA 330 SN: 1064

pH 7.00 = 7.00 at 12.1 °C, pH 10.00 = 10.00 at 13.2 °C

Conductance Meter Used: TSE MODEL 32 SN: 2603

Standard 1413 umhos/cm at 25°, Reading 1411 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 85	1137	13.8	11.74	5350	mostly clear, a few white pvc clippings.
90	1144	12.9	11.50	4910	mostly clear w/ some hematite fluffy white suspended solids
95	1153	13.0	11.59	5000	cloudy w/ suspended hematite 3 inch thick grey oil slick
100	1217	12.7	11.50	4450	cloudy w/ grey oil slick
103	1223	12.6	11.95	5550	cloudy w/ grey oil slick
Final					

Remarks: Tip casing = 25.55 ppm (w) Discovered on 18' gullies Water level = 102.59 Measured total depth = 102.5

X 1 Pump vol. 43.4 casing vol
2.0 sandpack vol.
51.4 → 52 gallons

Collected by [Signature] 3/15/88 Date

Checked by [Signature] Signature Date

WELL DEVELOPMENT DATA

Bore EP. 71D2 Well 22080

Project RM12 ON-POST Project Number TASK 44

Date(s) Developed 3/10/88 Date Installed 1-13-88

Personnel (Name/Company) BW/ESE Well Diameter (I.D.) 4 in.

BW/ESE Anulus Diameter 11 3/4 in. 0 ft. to 91 ft.

Rig Used ESE WELL SERVICE TRUCK 7 3/4 in. 91 ft. to 102 ft.

Pump (Type/Capacity) N/A Screen Interval 95.99 ft. to 102.70 ft.

Bailer (Type/Capacity) 3.85" X 2.0' ft. to ft.

Water Source RM12 Casing Height (Above G.L.) 2.0 ft.

Measured Well Depth TOC (Initial) 102.5 ft. Bottom of Screen (Below G.L.) 101.70 ft.

(Final) ft.

Water Level TOC/Date/Time (Initial) 36.10 / 3-9-88 / 15:10

(after 24 hrs.)

Feet of Water in Well 66.4 ft. x 653 gallons/foot = 4336 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 52 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 256 gallons

Added Water 0 gallons Total Purge Volume 139 gallons

Casing/Anulus Volume 4336 gallons Volume Measured By 5 gallon bucket

Surge Technique BALE INCL

Calibration: pH Meter Used: ORION SA 230 SN: 1064

pH 7.00 = 7.00 at 2.2 °C. pH 10.00 = 10.00 at 2.6 °C

Conductance Meter Used: YSE MODEL 32 SN: 2603

Standard 1415 umhos/cm at 25°, Reading 1003 umhos/cm at 25 °C

1000

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
103	1046	11.1	11.74	5600	mostly clear, some suspended bicarbonate
108	1107	11.1	11.55	5040	Slightly cloudy w/ some silt & some suspended bicarbonate
113	1120	10.3	11.57	5030	Some silt cloudy w/ gray silt - little or none bicarbonate
117	1132	10.8	11.76	5040	cloudy w/ gray silt, some clear clay stone grains & some bicarbonate
Final					<u>Done</u>

Remarks: Water level - 85.57 Water level in 14 gallons - very little/no rockings

Measured TD: 103.74

* Purge vol. 53.4 casing
5.4 sandpack
51.4 → 52 gal.

Collected by [Signature] Date 3/10/88

Checked by [Signature] Date

WELL DEVELOPMENT DATA

Bore EP-7102 Well 22080

Project JMA ON-POST Project Number TAK-44

Date(s) Developed 3/18/88 Date Installed 1-13-88

Personnel (Name/Company) DLW, RZ, BW Well Diameter (I.D.) 4 in.

(ESE) Anulus Diameter 11 3/4 in. 0 ft. to 91 ft.

Rig Used EEC WORK SERVICE TRUCK Screen Interval 72 in. 91 ft. to 102 ft.

Pump (Type/Capacity) N/A Screen Interval 95.59 ft. to 106.70 ft.

Bailer (Type/Capacity) 3.85" x 2.0' Casing Height (Above G.L.) 2.0 ft.

Water Source RMT Bottom of Screen (Below G.L.) 106.70 ft.

Measured Well Depth TOC (Initial) 102.5 ft.

(Final) ft.

Water Level TOC/Date/Time (Initial) 36.10 / 3-4-88 / 1510

(after 24 hrs.)

Feet of Water in Well 66.4 ft. x 0.53 gallons/foot = 43.36 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons * One Purge Volume 52 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 256 gallons

Addd Water 0 gallons Total Purge Volume 139 gallons

Casing/Anulus Volume 43.36 gallons Volume Measured By 5 gallon buckets

Surge Technique BALANCE

Calibration: pH Meter Used: ORION SA 230 SN 1064

pH 7.00 = 7.00 at 11.4 °C, pH 10.00 = 10.01 at 11.7 °C

Conductance Meter Used: ESE MODEL 32 SN 2003

Standard 1413 umhos/cm at 25°, Reading 1412 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>117</u>	<u>0959</u>	<u>12.6</u>	<u>11.39</u>	<u>4840</u>	<u>clear</u>
<u>122</u>	<u>1010</u>	<u>12.7</u>	<u>11.49</u>	<u>4910</u>	<u>clear</u>
<u>130</u>	<u>1038</u>	<u>12.7</u>	<u>11.63</u>	<u>4670</u>	<u>slightly cloudy w/ some suspended particulate & settled</u>
FINAL					
<u>139</u>	<u>1104</u>	<u>12.6</u>	<u>11.95</u>	<u>5630</u>	<u>cloudy w/ suspended particulate & settled particulate</u>
Final					

FINALIZED DEVELOPMENT AFTER 3 CONSECUTIVE STABLE DEWATERINGS

Remarks: Water level = 76.15 (TOC)

Dewatered in 22 cycles.

Water level initial = 103.72 (TOC)

The reading TOC = 34.5 ppm; previously TOC = 0.0 ppm.

* Purge vol: 43.4 casing vol
+ 5.0 submerged
51.4 = 52.0 gal.

Collected by [Signature] Date 3/18/88

Checked by [Signature] Date

EP-72

BOREHOLE SUMMARY LOG

Borehole EP-72 Well _____
Project Name and Location MW Installation Project Number Task 44
Drilling Company Boyles Driller B. Roach Rig Number Finding 1500
Drilling Method(s) continuous core
Size(s) and type(s) of bit(s) 3 7/8" tri-cone bit, 12 1/4" auger
Borehole Diameter 12 1/4 in. _____ cm. 0 ft. _____ cm. to 13.5 ft. _____ cm.
3 7/8 in. _____ cm. 13.5 ft. _____ cm. to 129 ft. _____ cm.
Sampling Methods core
Total Number Soil Sampling Tubes _____
Total Number Core Boxes 11
Number of Gallons Lost Drilling Fluid 150
Date/Time Started Drilling 7-28-87 1010
Date/Time Completed Drilling 7-30-87 1054
Total Borehole Depth _____ ft. _____ cm.
Depth to Bedrock 10.5 ft. _____ cm.
Depth to Water 6 ft. _____ cm.
Water Level Determined By? _____
Borehole Completed as Monitoring Well? NO
Date/Time Grouting Completed 7-31-87 0751
Depth of Tremmie Pipe 125'
Gallons of Grout 90
Materials Used 9 bags cement, 90 gals. water, 1 bag bentonite
Comments Hole grouted to surface

Wellsite Geologist C. D. Boyson Date 7-30-87
Checked for Grout Settlement on 8/5/87 by Steve Paul
Amount of Grout Added none needed
All Measurements from Ground Level
Reviewed by Steve Paul Date 8/19/88
Drill Site Geologist _____ Date _____

Borehole: EP-72A

Well Number: _____

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
1'	1	2.0' / 1.25'			CL	CLAY, 30% silt, 10 PR 4/4, dark yellowish brown, dry, stiff, low plastic ↓ ↓ ↓
2'		0.0' - 2.0'			CL	CLAY, 15% silt, 10 PR 6/4, light yellowish brown, dry, stiff, low plastic, calcareous porous ↓ ↓ ↓
3'	2	2.0' - 4.0' / 1.25' / 2.0'				
4'					SM	Silty SAND, 15% silty fine to medium grained sand, 3% coarse sand, 2.5 PR 5/6, light olive brown, dry, medium dense, nonplastic
5'	3	4.0' - 6.0' / 1.5' / 2.0'			CL	CLAY, 20% sand, fine to coarse grained sand, 10 PR 4/4, dark yellowish brown, dry, stiff, medium plastic, very calcareous, (calc veins) <small>sand grain size increase at 6.0' to very coarse sand and small gravel</small>
6'					CL	CLAY, 25% sand, medium to very coarse grained sand, 5% small gravel, 10 PR 8/4, very pale brown, dry, stiff, medium plastic, very calcareous, porous
7'	4	6.0' - 7.0' / 1.0' / 2.0'			SM	Silty SAND, 20% silt, 10% small gravel, fine to very coarse grained sand, 10 PR 5/4, yellowish brown, dry, med. dense, non plastic very calcareous, 1/4" CaCO ₃ lenses.
8'					CL	CLAY, 20% silt, 15% SAND, fine to coarse grained, 5% small gravel, 10 PR 1/3, very pale brown, dry, stiff, medium plastic very calcareous
9'	5	8.0' - 10.0' / 2.0' / 2.0'			CL	CLAY, 35 SAND, fine to coarse grained, 10 PR 4/4 dark yellowish brown, dry, stiff, medium plastic, very calc CaCO ₃ nodules (20%)
10'						

SAME AS TUBE NUMBER
SAME AS TUBE INTERVAL

Drill Site Geologist: Steve Paris

Date: 7/22/97

Reviewed By: _____

Date: _____

Well Number:

Drill Site Geologist: Steve Davis Date: 7/22/87
Reviewed By: _____ Date: _____

Depth ft	Reg Int	Angle	Structure/ Bedding Desc	Hard- ness S	Perm H	Mineralogy Min	Color G	Texture/ Grain Size clst sd or mm of 10 100	Lith Char	Lith Class	Description/Comments CM (Scale 1" = 2' ft)
13.5											hole cased to 13.5, bedrock at 10.5 Allowance clay --
14			Massive			qtz 95% max. 5% FeOx staining percolate	2.54 6.4 lt. yellowish brown			SS	SANDSTONE partly cemented/friable
16		2.8 3.5									
18											5' section
20		5.12									
22			Fracs. 1-3 1"			FeOx + MnO on fract	2.54 5/2 grayish brown		occas. lithol frag. (rounded)	CL	CLAYSTONE sec
24			1 to core anal								
26		4.2 5									
28											
30		5									

21.6
13.5
8.1

21.6
8.1
2.9

23
12

16
6.9
22

ESE, Inc. Bore EP72 Well(s)

DEPTH Feet	Recon Int	Structure/ Bedding		Hard- ness	Perm in	Mineralogy		Grain Size mm	Lith Char	Lith. Class	Description/Comments
		Angle	Desc			Min	Habit				
34	2 5		Massive (fracs: 1-2 1-1)			FeOx stains on fracs		2.54 5/2 grayish brown		CL	CLAYSTONE
36						FeOx stains					
38											
40	2 5										
42			Fine laminated			FeOx stains		2.54 6/16 off white yellow	41' CLAYSTONE	SS	SANDSTONE
44						FeOx stains		2.54 5/2 grayish brown	42' CL	CL	claystone / interbed.
46	3 5								42.6'	SS	
48	2		fractures common ↓ rock weathered & fairly irregular						43'	CL	CLAYSTONE
50	1/16								48' silty 5%		slightly silty - 5%

WELL(S)

EP-7L

ESE, Inc.

[illegible]

(400) NO. 232	HOS INT	U S	Structure/ Bedding Angle Dev	Hard ness	Perim 1" 2" 3"	Mineralogy Min Major	Color (M) G	Texture/ Grain Size clst sd gr mm	Lith Char	Lith Class Ft	Description/Comments CM (Scale 1" = 2' ft)
24	5 5		massive				2.54 N5/0 gray			CL	CLAYSTONE
76									50% 10%10	74'	
78	5 5									75'	
80											
82	4.2 5					Carbon permeable 35%	2.54 N3/0 very dk gray				
84						ch 10%	2.54 N4/0 gray		83.9 clay 10%10	SS	sandstone interbedded with clay nodules
86	5 5		units of darker gray clay 1/2" thick								
88											
90	5 5										

ESE, Inc. EP-72 WELLS

[illegible]

DEPTH Feet	U	Structure/ Bedding Angle Desc	Hard- ness S H	Perm. 10 20	Mineralogy Min. Nat. II	Color M G	Texture/ Grain Size dist. ad gr mm	Lith. Char	Lith. Class Ft	Description/Comments CM (Scale 1" = 2 ft)
114					don frag 21%	2.5y N4/0 gray 11.9mm		Silty 10% silt	SS	SANDSTONE
116										texture change
118										
120					don cl.	2.5y N4/0 gray 11.9mm		Silt 10%	SS	texture change
122										
124					don frag	2.5y N4/0 dk gray				
126										
128										
129										
124.5									CL	CLAYSTONE
128.5										
129										
										Total Depth 129'

slides
at 45°
to core
axis

EP-72 WELL(S)

Inc.



Frontier Logging
Lakewood, Colorado

ESE

EP-72

RMA

Date JULY 30, 1987

Driller	Depth	130 Ft	Notes	Round Trip
Bit	Size	3 7/8"		
Casing	Depth	13 FT	Time	1130
Mud	in hole	Water + Native Mud	Unit No.	110
Density	Velocity		Operator	Wm. Linton
Drilling Measured From		Ground Level	Location	Lakewood

COLORADO

ADAMS COUNTY

Ground Level

NATURAL GAMMA BEAMS (ANALOG)
(Initial log at scale)

Scale		Scale		Scale		Scale	
TC	Logging Score	TC	Logging Score	TC	Logging Score	TC	Logging Score
From	To	From	To	From	To	From	To
2	15						
200 Scale = 20							
95 and 130							
Natural Gamma							
Time Constant							
2							
Count Source							
103-1041							
Xtal							
3/4 x 1 1/4							
1.60 x 10 ⁻⁵							
1.10							
Casing Factor							
3 7/8"							
Resistance							
20 CPS							
S.P.							
20 CPS							
20 MV							
25							

Gamma (Analog)		Density Source No	
Gamma (Digital)		Type	
Caliper		DPS/inch	
Temperature			
Directional Data		Neutron Source No	
Closure		Type	
Azimuth		DPS/inch	
True Vertical		Survey Depth	

NATURAL GAMMA

S.P.

RESISTANCE

25

5 inches

COUNTS PER SECOND

20 40

EN HOLE LOG

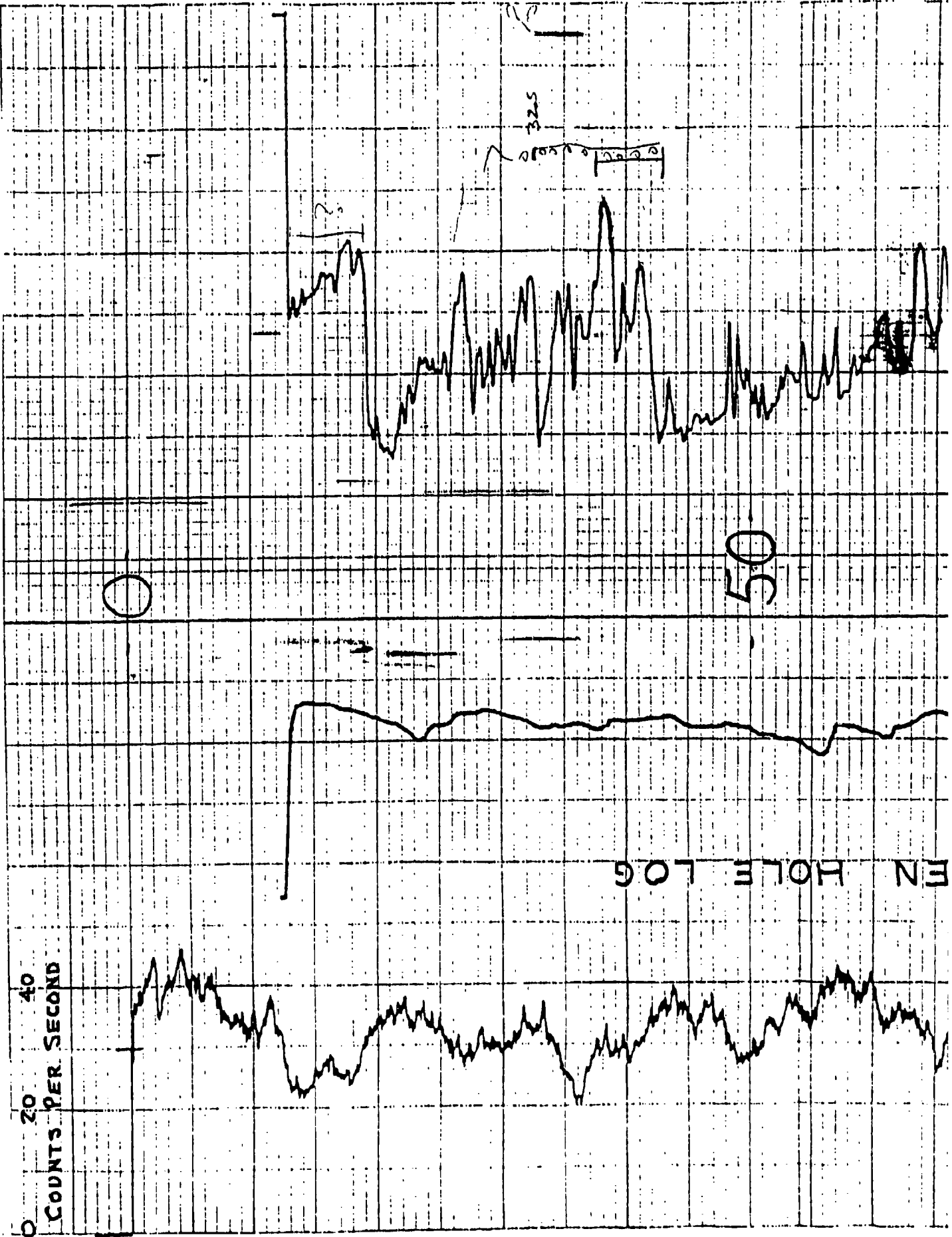
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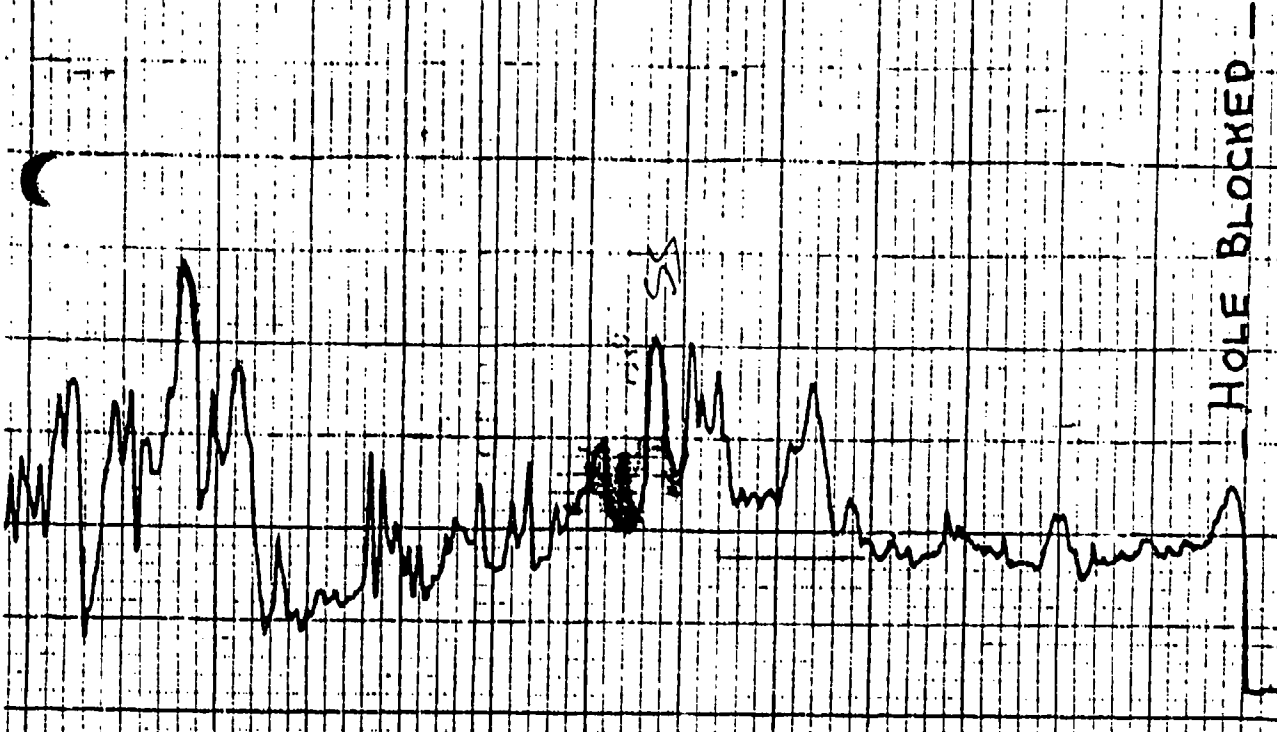
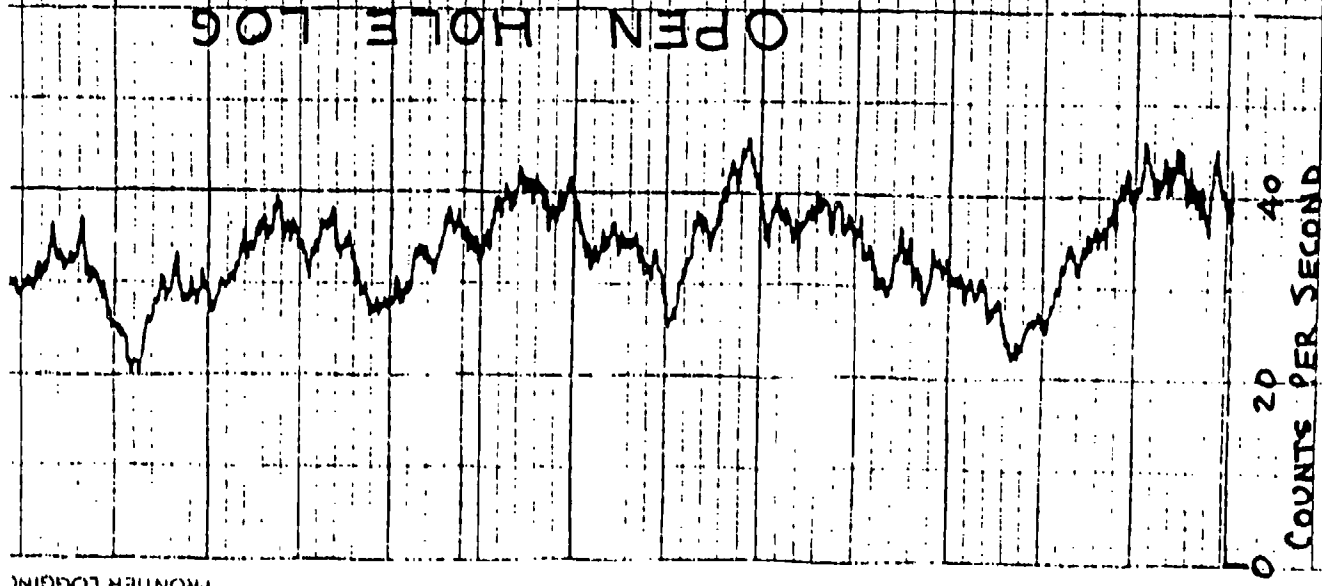
20 sec

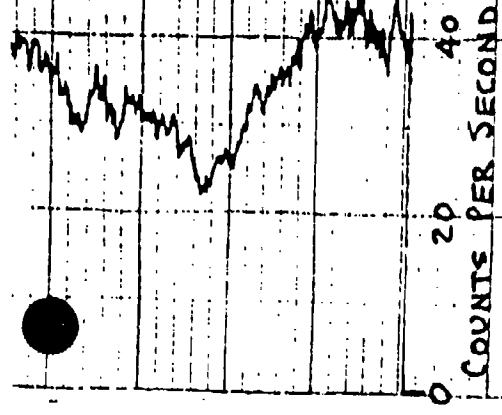
20 MV

5 inches

25







NATURAL

GAMMA

S.P. +

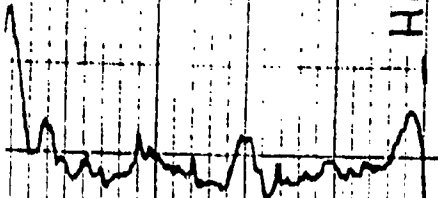
20 MV/INCH

HOLE BLOCKED --

95

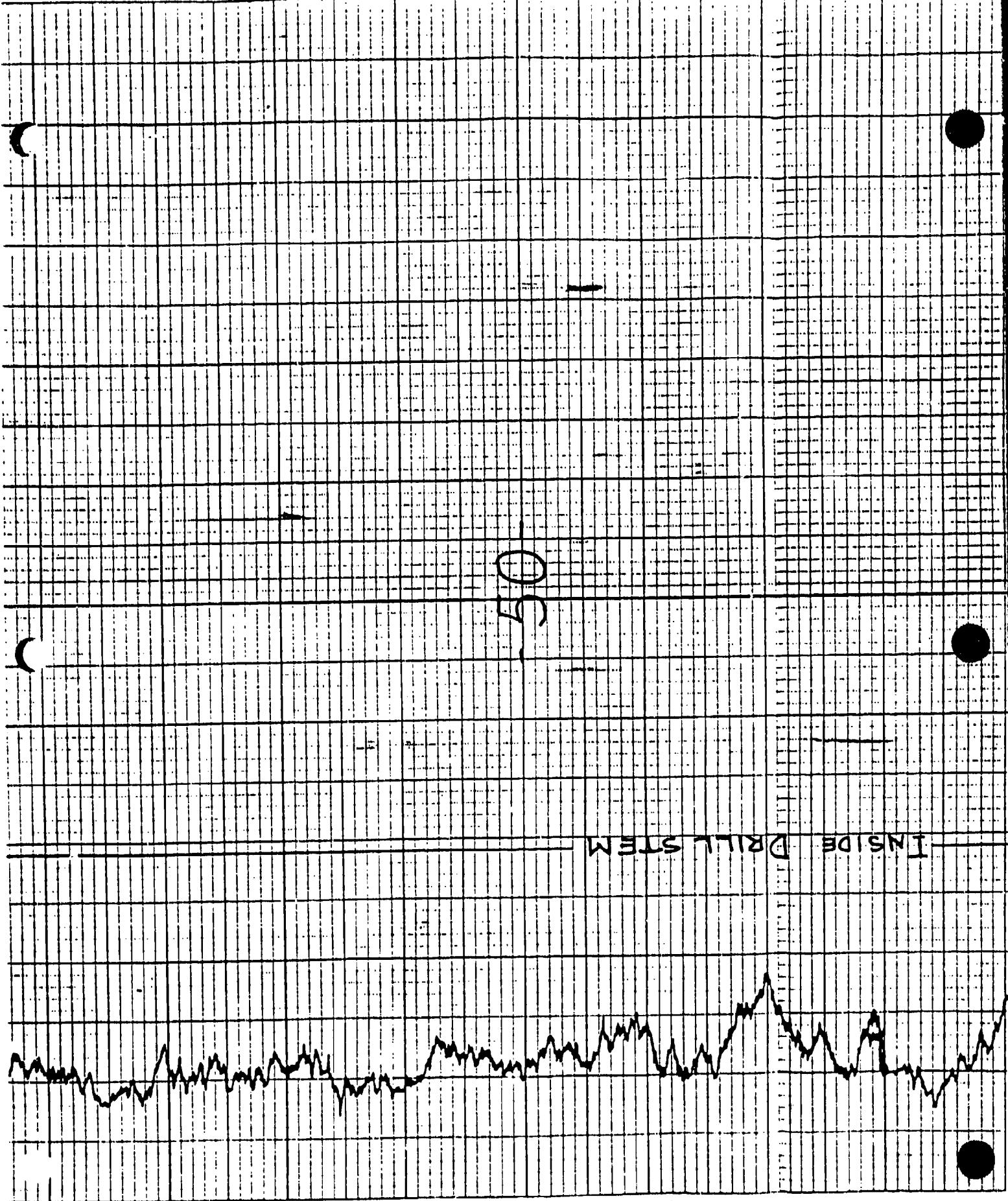
RESISTANCE

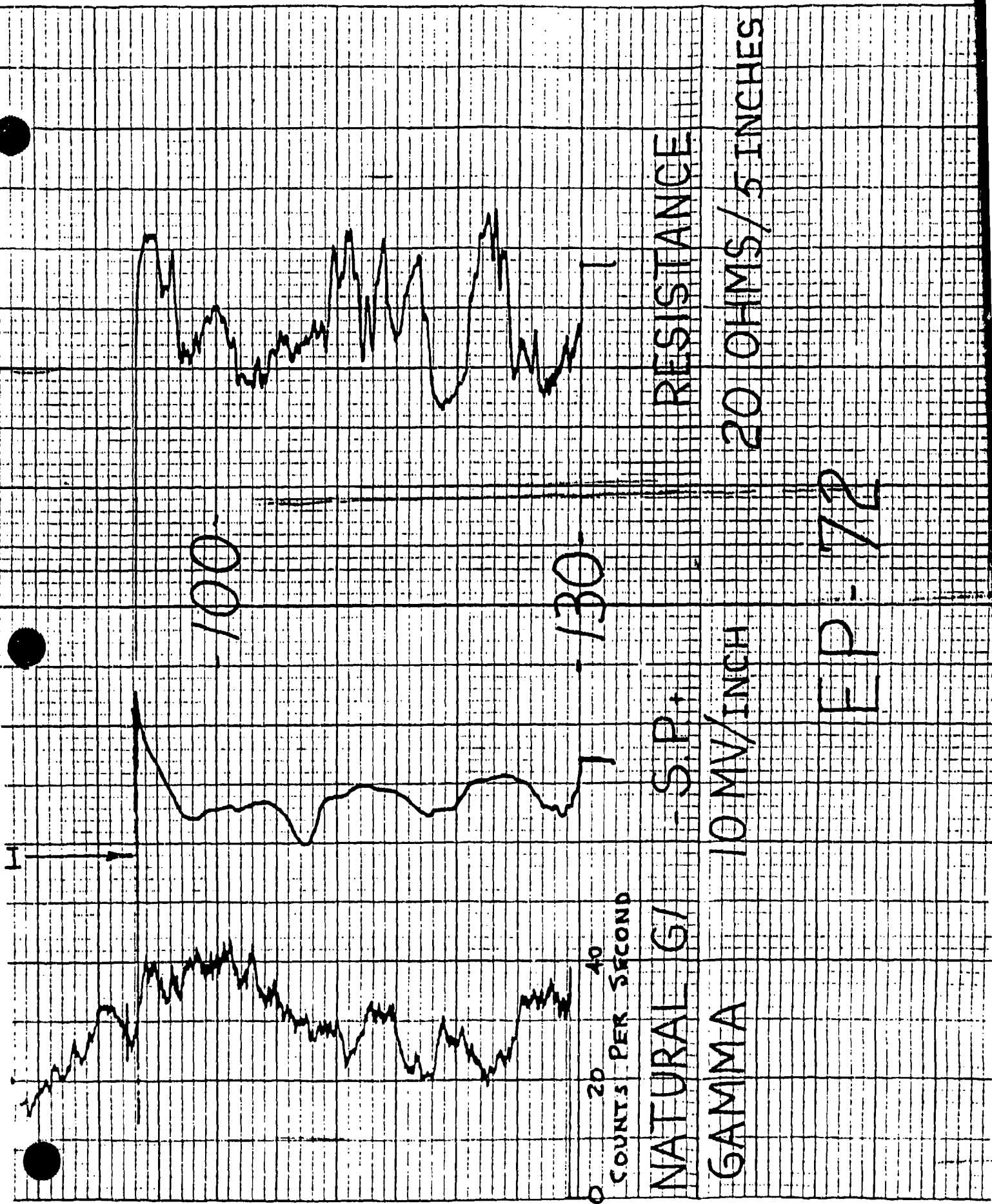
25 OHMS/5 INCHES



0







WELL DEVELOPMENT DATA

Project RMA ON POST Bore EP-7201 Well 23229
Date(s) Developed 12-22-87 Project Number Task 44
Personnel (Name/Company) WTV/ESE Date Installed 092387
ABW/ESE Well Diameter (I.D.) 4 in.
Rig Used Well Service Truck Annulus Diameter _____ in. _____ ft. to _____ ft.
Pump (Type/Capacity) Grundfos 26gpm Screen Interval _____ ft. to _____ ft.
Bailer (Type/Capacity) _____ Casing Height (Above G.L.) _____ ft.
Water Source RMA Bottom of Screen (Below G.L.) 22.4 ft.
Measured Well Depth TOC (Initial) 24.08 ft.
(Final) _____ ft.

Water Level TOC/Date/Time (Initial) 24.21' / 12-22-87 / 1410 DRY WELL
(after 24 hrs.) _____

Feet of Water in Well 0' ft. x _____ gallons/foot = _____ gallons casing/annulus volume
Drilling Fluid Lost _____ gallons One Purge Volume _____ gallons
Purge Water Lost _____ gallons Minimum Purge Volume _____ gallons
Added Water _____ gallons Total Purge Volume _____ gallons
Casing/Annulus Volume _____ gallons Volume Measured By _____
Surge Technique _____

Calibration: pH Meter Used: _____
pH 7.00 = _____ at _____ °C, pH 10.00 = _____ at _____ °C
Conductance Meter Used: _____
Standard _____ umhos/cm at 25°, Reading _____ umhos/cm at _____ °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>Dry</u>					
<u>Well</u>					
Final					

Remarks: _____

Collected by Walt Vassar 12-22-87
Signature _____ Date _____
Checked by _____
Signature _____ Date _____

WELL CONSTRUCTION SUMMARY

Borehole EP 72 01 Well _____
Project Name and Location TASK 44 SECTION 22 NE 1/4 NEWARK WELLS Project Number 17053 00410
Drilling Company Borvis Bros Driller Don Lawton Rig Number _____
Drilling Method(s) 12 1/4 OD Hollow Stem Auger

Borehole Diameter 12 1/4 in. _____ cm. 0 ft. _____ cm. to 22.4 ft. _____ cm.
_____ in. _____ cm. _____ ft. _____ cm. to _____ ft. _____ cm.

Size(s) and types of Bit(s) _____

Size and Type PVC 4" 1020 SPS

Total Borehole Depth 22.4 ft. _____ cm.

Depth to Bedrock 10.5 ft. _____ cm.

Depth to Water 6.5 ft. _____ cm.

Water Level Determined By Pressure Sampling

Length Plain PVC (total) 18.23 ft. _____ cm.

Length of Screen 5.86 ft. _____ cm.

Total Length of Well Casing 22.4 ft. _____ cm.

PVC Stick Up 1.69 ft. _____ cm.

Depth to Bottom of Screen 22.4 ft. _____ cm.

Depth to Top of Screen 6.54 ft. _____ cm.

Depth to Top of Sand 11.7 ft. _____ cm.

Depth to Top of Bentonite 6.5 ft. _____ cm.

Sampling Method(s) _____

Date/Time Start Drilling 9/23/87 1440

Date/Time Finish Drilling 9/23/87 1617

Date/Time Start Completion 9/23/87 0745

Date/Time Cement Protective Casing 9/23/87 1001

Materials Used _____

Plain PVC 2-10'

Slotted PVC 1-5'

Bentonite Pellets 5 BUCKETS

Bentonite Granular 10/16s

Cement 4 BAGS

Sand 6.5 BAGS

Water added during completion 10 gals to seal casing

Water added during drilling 5

Total Gallons of water added 15

Drill Site Geologist [Signature]

Date 9/23/87

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed _____

Date/Time/Personnel Casing Painted _____

Date/Time/Personnel Numbers Painted _____

Materials Used _____

Top of Protective Casing to Top of PVC _____ ft. _____ cm.

Top of Protective Casing to Weep Hole _____ ft. _____ cm.

Top of Protective Casing to Internal Mortar _____ ft. _____ cm.

Top of Protective Casing to Top of Cement Pad _____ ft. _____ cm.

Top of Protective Casing to Ground Level _____ ft. _____ cm.

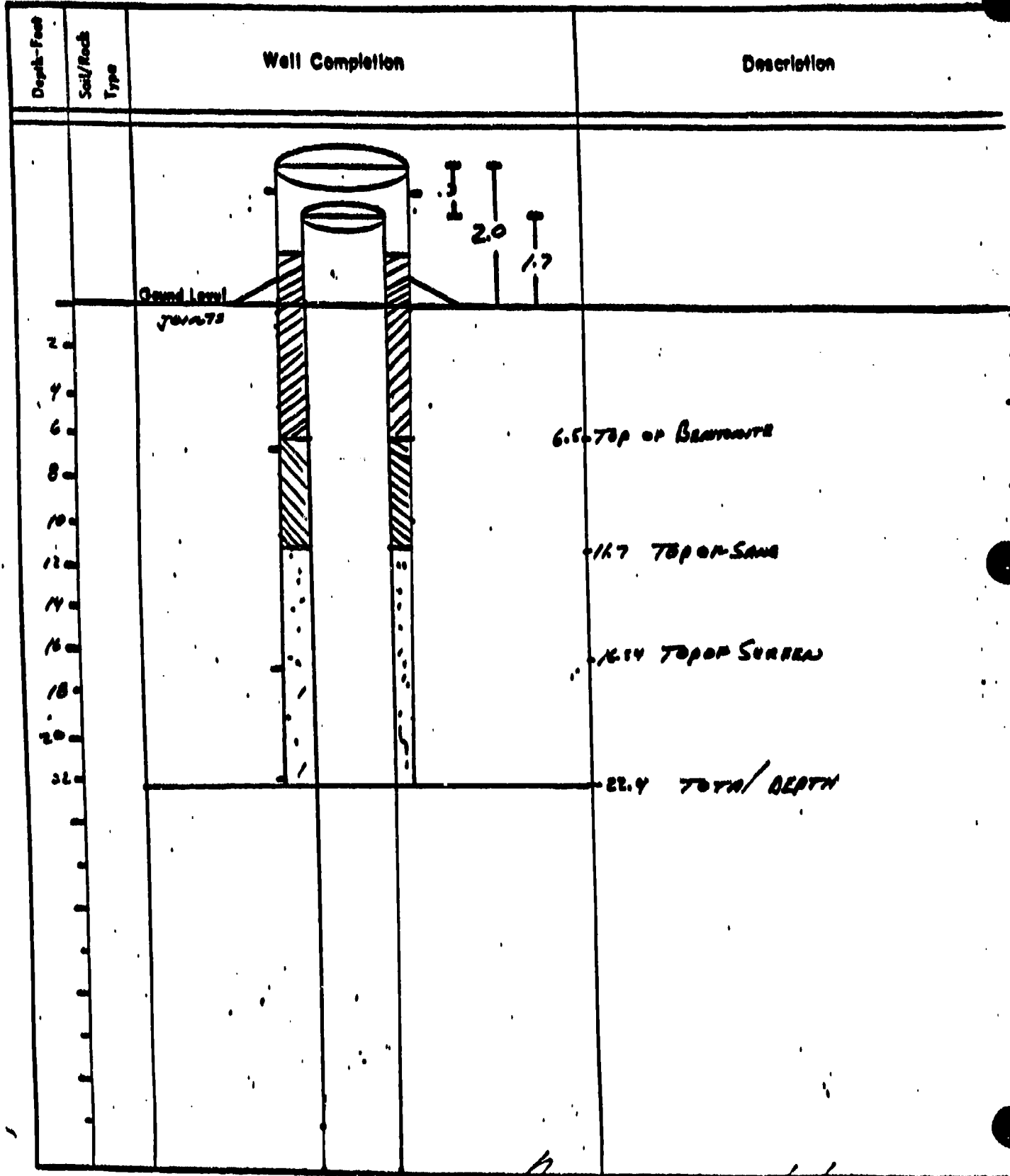
COMMENT/NOTES

Reviewed By _____ Date _____

Drill Site Geologist _____ Date _____

Borehole: EP-72 01

Well: _____



Drill Site Geologist: [Signature]
 Reviewed By: _____

Date: 9/23/87
 Date: _____

WELL CONSTRUCTION SUMMARY

Borehole EP-72-02 Well _____
Project Name and Location Tahoe Soc 22 W. of Dammar, Valle Project Number 17052 0010
Drilling Company Boyle Bros Driller R. Tamm Rig Number 5445
Drilling Method(s) Rotary

Borehole Diameter 12 1/2 in. _____ cm. SUPPASE ft. _____ cm. to 106.19 ft. _____ cm.
736 in. _____ cm. SUPPASE ft. _____ cm. to _____ ft. _____ cm.

Size(s) and types of Bit(s) 12 1/4 ALAR BIT
7 1/2 ALAR BIT

Size and Type PVC 4" .000 10'

Total Borehole Depth 122.54 ft. _____ cm.

Depth to Bedrock 25 ft. _____ cm.

Depth to Water 16.5 ft. _____ cm.

Water Level Determined By PERVIOUS SANDSTONE

Length Plain PVC (total) 118.37 ft. _____ cm.

Length of Screen 4.27 ft. _____ cm.

Total Length of Well Casing 122.64 ft. _____ cm.

PVC Stick Up 1.7 ft. _____ cm.

Depth to Bottom of Screen 122.54 ft. _____ cm.

Depth to Top of Screen 118.27 ft. _____ cm.

Depth to Top of Sand 102.4 ft. _____ cm.

Depth to Top of Bentonite 101.0 ft. _____ cm.

Sampling Method(s) 1/2

Date/Time Start Drilling 9/22/87 1440

Date/Time Finish Drilling 9/22/87 1037

Date/Time Start Completion 9/22/87 1037

Date/Time Cement Protective Casing 9/22/87 1037

Materials Used _____

Plain PVC 12 10' SUPPASE

Slotted PVC 1 10' SUPPASE

Bentonite Pellets 1 QUICKSET

Bentonite Cement POWDER 170 / 65

Cement 14 BAGS

Sand 4 BAGS

Water added during completion 0

Water added during drilling 0

Total Gallons of water added 0

Drill Site Geologist [Signature]

Date 9/27 3:01/87

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed _____

Date/Time/Personnel Casing Painted _____

Date/Time/Personnel Numbers Painted _____

Materials Used _____

Top of Protective Casing to Top of PVC _____ ft. _____ cm.

Top of Protective Casing to Weep Hole _____ ft. _____ cm.

Top of Protective Casing to Internal Mortar _____ ft. _____ cm.

Top of Protective Casing to Top of Cement Pad _____ ft. _____ cm.

Top of Protective Casing to Ground Level _____ ft. _____ cm.

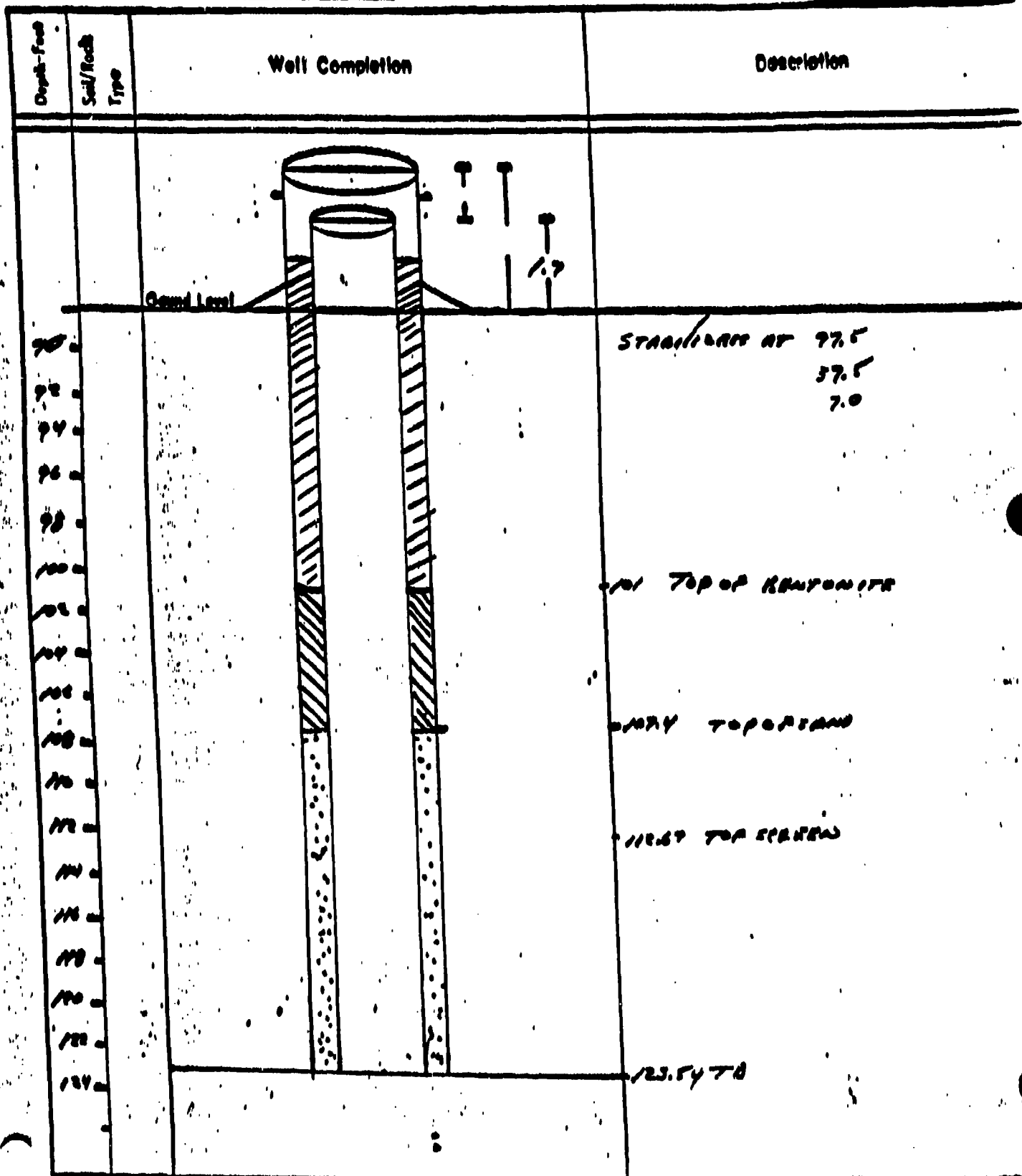
COMMENT/NOTES

Reviewed By _____ Date _____

Drill Site Geologist _____ Date _____

Boothole: EP-93-02

Well: _____



Drill Site Geologist: _____

Date: _____

Reviewed By: _____

Date: _____

WELL DEVELOPMENT DATA

Bore EP-2^{uv} D2 Well 23230 Task 44
Project RMA ON POST Project Number 292787
Date(s) Developed 12/16-87 Date Installed 092787
Personnel (Name/Company) WTV/ESE Well Diameter (I.D.) 4 in.
TDM/ESE Annulus Diameter 12 1/4 in. 0 ft. to 106.14 ft.
Rig Used Well Service Truck 7 3/8 in. 106.14 ft. to 122.54 ft.
Pump (Type/Capacity) Grundfos (7gpm) Screen Interval 122.67 ft. to 122.54 ft.
Baller (Type/Capacity) _____ ft. to _____ ft.
Water Source RMA Casing Height (Above G.L.) 1.7 ft.
Measured Well Depth TOC (Initial) 125.44 ft. Bottom of Screen (Below G.L.) 122.54 ft.
(Final) _____ ft.
Water Level TOC/Date/Time (Initial) 43.76 / 12-16-87 / 0910
(after 24 hrs.) _____
Feet of Water in Well 51.63 ft. x 0.653 gallons/foot = 33.3 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons * One Purge Volume 53.3 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 254.3 (500) gallons
Added Water 0 gallons Total Purge Volume 263 gallons
Casing/Annulus Volume 43.75 53.3 gallons Volume Measured By 55 gal. drums
13.75 14.0 Surge Technique raise & lower pump
Calibration: pH Meter Used: Beckman Phi 21 SN 015883
pH 7.00 = 7.10 at 3.9 °C. pH 10.00 = 10.27 at 2.6 °C
Conductance Meter Used: YS Model 32
Standard 1413 umhos/cm at 25°, Reading 477 umhos/cm at 6.5 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial <u>0</u>	<u>09:53</u>	<u>3.5</u>	<u>12.50</u>	<u>1915</u>	<u>Milky gray, v. s. lgy</u>
<u>20</u>	<u>10:11</u>	<u>10.1</u>	<u>10.83</u>	<u>440</u>	<u>pretty much</u> <u>clear</u> <u>some sand at 21 ft</u>
Final					

Remarks: 10:00 ip: 2.0 in 55 gal drum, 0.1 in breathing zone. * 1 Purge volume = 53.3 (casing) + 13.75 (sand) = 67.05
pumping rate measured by 5 gal. bucket = 1.2 gpm → 70.4 gallons

Sand pack height 16.14 X 0.852 = 13.75 gal. 12.3.54 Collected by WTV/VAS 12-16-87
16.14 ft. Sand pack vol. 12.3.54 Checked by [Signature] 2/15/88
Signature Date

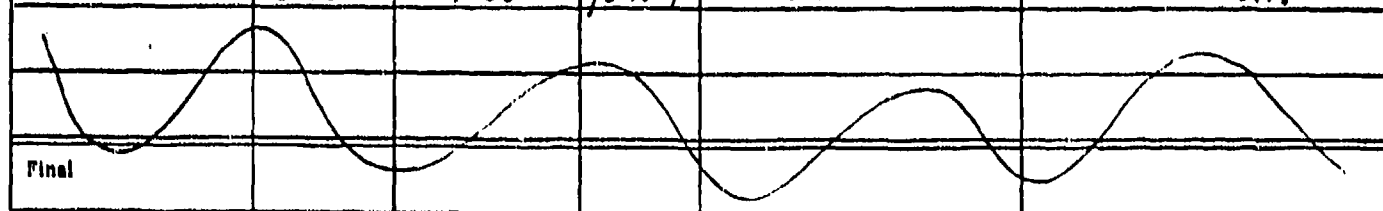
WELL DEVELOPMENT DATA

Bore EP-72-D2 Well 23230

Project RMA ON POST Project Number TJK 44
Date(s) Developed 12-18-87 Date Installed 092787
Personnel (Name/Company) WTV/ESE Well Diameter (I.D.) 4 in.
TOM/ESE Annulus Diameter 12 1/4 in. 0 ft. to 106.19 ft.
Rig Used Well Service Truck 7 3/4 in. 106.19 ft. to 123.54 ft.
Pump (Type/Capacity) 7 gpm Grundfos Screen Interval 112.69 ft. to 123.54 ft.
Bailer (Type/Capacity) _____ ft. to _____ ft.
Water Source RMA Casing Height (Above G.L.) 1.7 ft.
Measured Well Depth TOC (Initial) 125.39 ft. Bottom of Screen (Below G.L.) 123.54 ft.
(Final) _____ ft.
Water Level TOC/Date/Time (Initial) 73.76 / 12-18-87 / 0910
(after 24 hrs.) _____

Feet of Water in Well 81.63 ft. x 0.653 gallons/foot = 45.11 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 56.86 (60) gallons
Purge Water Lost N/A gallons Minimum Purge Volume 204.3 (500) gallons
Added Water 0 gallons Total Purge Volume _____ gallons
Casing/Annulus Volume 45.11 52.3 gallons Volume Measured By 5.5 gal drum
+ 13.75 = sand pack Surge Technique raise & lower pump

Calibration: pH Meter Used: Beckman Phi 21 SN: 015283
pH 7.00 = 7.03 at 6.3 °C, pH 10.00 = 10.23 at 6.4 °C
Conductance Meter Used: VST model 32
Standard 1413 umhos/cm at 25°, Reading 259 umhos/cm at 5.2 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 30	9:40	7.8	10.04	2220	Light gray, med amt. silt.
60	12:11	12.5	10.37	1640	Light gray, sm. amt. silt
95	2:00	9.2	10.24	2380	Light gray, sm. amt. silt
					
Final					

Remarks: Water Level TOC = 60.95 / 12-18-87 / 10:00 pump off - discharge 21.2 gpm / Pump on 10:13
Tip 9:20 = 0.0, Tip 9:50 = 0.0

Collected by Walt Jassan 12-18-87
Signature _____ Date _____
Checked by [Signature] 2/15/88
Signature _____ Date _____

WELL DEVELOPMENT DATA

Bore EP-72-D2 Well 23230

Project RMA ON POST Project Number TASK 44

Date(s) Developed 12-21-87 Date Installed 092787

Personnel (Name/Company) HTV/ESSE Well Diameter (I.D.) 4 in.

ABU/ESSE Annulus Diameter 12 1/2 in. 0 ft. to 106.17 ft.

Rig Used Well Service Truck 7 3/4 in. 106.17 ft. to 123.57 ft.

Pump (Type/Capacity) Geotech (Isco) Screen Interval 112.67 ft. to 123.57 ft.

Bailer (Type/Capacity) _____ ft. to _____ ft.

Water Source RMA Casing Height (Above G.L.) 1.7 ft.

Measured Well Depth TOC (Initial) 125.39 ft. Bottom of Screen (Below G.L.) 123.57 ft.

(Final) _____ ft.

Water Level TOC/Date/Time (Initial) 43.76 / 12-16-87 / 0910

(after 24 hrs.) _____

Feet of Water in Well 81.63 ft. x 0.653 gallons/foot = 53.3 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 56.86 (60) gallons

Purge Water Lost N/A gallons Minimum Purge Volume 28.2 (30) gallons

Added Water 0 gallons Total Purge Volume _____ gallons

Casing/Annulus Volume 43.11 53.3 gallons Volume Measured By 55 gal drums

+ 13.75 = sand pack Surge Technique raise & lower pump

Calibration: pH Meter Used: BECKMAN 01 PH METER

pH 7.00 = 7.02 at 7.2 °C, pH 10.00 = 10.22 at 6.9 °C

Conductance Meter Used: YSI Model 32

Standard 1413 umhos/cm at 25°, Reading _____ umhos/cm at _____ °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
initial 95	1521	11.0	9.18	2650	Clear to Gray
110	1554	10.2	9.15	2920	Clear

Remarks: Water Level TOC = 58.21 12-21-87 / 1450

TIP = 0.0

Collected by W. H. V. S. & Co. 12-21-87

Checked by [Signature] 2/15/88

Signature _____ Date _____

WELL DEVELOPMENT DATA

Bore EP-72-D2 Well 23230

Project EP-72-D2 RMA ON 101T Project Number PASK 44
Date(s) Developed 12-22-87 Date Installed 292787
Personnel (Name/Company) WTV/ESE Well Diameter (I.D.) 4 in.
ABW/ESE Anulus Diameter 12 1/2 in. 0 ft. to 126.17 ft.
Rig Used Well Service Truck 7 3/8 in. 126.49 ft. to 123.54 ft.
Pump (Type/Capacity) Geotek - TSC0 Screen Interval 112.67 ft. to 123.54 ft.
Bailer (Type/Capacity) 2.5" x 1.5' WTV _____ ft. to _____ ft.
Water Source RMA Casing Height (Above G.L.) 1.7 ft.
Measured Well Depth TOC (Initial) 125.39 ft. Bottom of Screen (Below G.L.) 123.54 ft.
(Final) _____ ft.
Water Level TOC/Date/Time (Initial) 43.76 / 12-16-87 / 0910
(after 24 hrs.) _____

Feet of Water in Well 81.63 ft. x 0.653 gallons/foot = 53.3 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 56.86 (20) gallons
Purge Water Lost N/A gallons Minimum Purge Volume 2543 (300) gallons
Added Water 0 gallons Total Purge Volume _____ gallons
Casing/Anulus Volume 53.3 gallons Volume Measured By 55 gal drums
+ 13.75 = sand pack Surge Technique raise & lower pump

Calibration: pH Meter Used: BIECHMAN 20 pH METER (015983)
pH 7.00 = 7.09 at 3.10 °C, pH 10.00 = 10.25 at 5.0 °C
Conductance Meter Used: YSI model 32
Standard 1413 umhos/cm at 25°, Reading 825 umhos/cm at 23 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial <u>110</u>	<u>0910</u>	<u>10.3</u>	<u>8.84</u>	<u>2540</u>	<u>Clear</u>
<u>140</u>	<u>1023</u>	<u>11.4</u>	<u>9.70</u>	<u>2510</u>	<u>Clear</u>
<u>185</u>	<u>1330</u>	<u>10.6</u>	<u>9.77</u>	<u>2520</u>	<u>Clear</u>
Final					

Remarks: Water Level TOC = 64.40' / 12-22-87 / 0834

TIP = 2.0

Pumping rate approx 2 gpm / Dewatered at 55 gal. pump off at 1:30 pm
Collected by Walt Basson 12-22-87 Date
Checked by [Signature] 2/15/88 Date

WELL DEVELOPMENT DATA

Project TASK 44 Bore EP-7202 Well 23230
 Date(s) Developed 2-23-88 Project Number _____
 Personnel (Name/Company) ESE Date Installed 9-27-87
Kevin, Roy, Bob Well Diameter (I.D.) 4" PVC in.
 Rig Used WELL DEVELOP. TRUCK Anulus Diameter 12 1/4 in. 0 ft. to 106.19 ft.
 Pump (Type/Capacity) ✓ ISCO 7 7/8 in. 106.19 ft. to 123.54 ft.
 Bailer (Type/Capacity) _____ Screen Interval 112.67 ft. to 123.54 ft.
 Water Source RMA Casing Height (Above G.L.) 1.7 ft.
 Measured Well Depth TOC (Initial) _____ ft. Bottom of Screen (Below G.L.) 123.54 ft.
 (Final) 125.80 ft.
 Water Level TOC/Date/Time (Initial) 48.42' / 2-23-88 / 9:15
 (after 24 hrs.) 69.76' / 2-24-88 / 1805
 Feet of Water in Well 48.42 ft. x _____ gallons/foot = 53.3 gallons casing/anulus volume
 Drilling Fluid Lost N/A gallons One Purge Volume 70 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 330+350 gallons
 Added Water 0 gallons Total Purge Volume 265 gallons
 Casing/Anulus Volume 66 gallons Volume Measured By 55 Gal. Drums
 Surge Technique raise & lower pump
 Calibration: pH Meter Used: SN # 016344
 pH 7.00 = 7.04 at 13.8 °C, pH 10.00 = 10.14 at 13.3 °C
 Conductance Meter Used: SN # 14243
 Standard 1413 umhos/cm at 25°, Reading 1413 umhos/cm at 25° °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
RR 165 Gal	10:00	10.8	9.18	2570	CLEAR
225 Gal	11:43	9.6	9.52	2600	CLEAR
265 Gal	1242	9.1	9.83	2635	CLEAR
Final					RR

Remarks: Dewatered @ 265 Gal.

Collected by Reel Koslos 12-20-88
 Signature _____
 Checked by [Signature] 3-2-88
 Signature _____

EP-74

BOREHOLE SUMMARY LOG

Borehole EP - 721 Well 24196, 24197, 24198
Project Name and Location 17th Installation Project Number 744
Drilling Company Boyles Driller B. Roach Rig Number Furling 1500
Drilling Method(s) Continuous Core

Size(s) and type(s) of bit(s) 17 1/4" auger, 5 7/8" tricone
Borehole Diameter 17 1/4 in. 0 ft. 26 cm. to 122 ft. 122 cm.
3 7/8 in. 26 ft. 122 cm. to 122 ft. 122 cm.

Sampling Methods Continuous Core

Total Number Soil Sampling Tubes —

Total Number Core Boxes 9

Number of Gallons Lost Drilling Fluid —

Date/Time Started Drilling 8.3.87 0750

Date/Time Completed Drilling 8.4.87 0823

Total Borehole Depth 122 ft. — cm.

Depth to Bedrock 25.50 ft. — cm.

Depth to Water 24.75 ft. — cm.

Water Level Determined By? Water level indicator

Borehole Completed as Monitoring Well? No

Date/Time Grouting Completed 8.4.87 1120

Depth of Tremmie Pipe 120"

Gallons of Grout 90

Materials Used 9 bags cement, 9 gal. water, 1 bag bentonite

Comments hole grouted to surface

Wellsite Geologist Cynthia D. Kusan Date 8.4.87

Checked for Grout Settlement on 8/7/87 by Steve Davis

Amount of Grout Added none needed

All Measurements from Ground Level

Reviewed by Steve Davis Date 4/8/88

Drill Site Geologist — Date —

Borehole: EP-74A

Well Number: _____

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
1-1	0.0'-2.0'	14% 2.0'	SAME AS TUBE NUMBER	SAME AS TUBE INTERVAL	CL	CLAY, 10% sand, fine to coarse grained, 2% small gravel, 10YR 4/4 Dark yellowish brown, medium stiff, dry, low plastic, porous
2-3	2.0'-4.0'	1.0% 2.0'			CL	CLAY, 10% silty, 10YR 5/4, yellowish brown, medium stiff, dry, low plastic, calcareous at 3 7/8' band, fine to coarse grained
4-5	4.0'-6.0'	1.0% 2.0'				
6-7	6.0'-7.0'	1.0% 1.0'			CL	CLAY, 20% sand, fine to coarse grained, 10YR 7/3 very pale brown, dry, medium stiff, medium plastic, dry, calcareous
7-8	7.0'-8.0'	1.0% 1.0'			CL	CLAY, 30% sand, fine to coarse grained, 10YR 7/4 very pale brown, dry medium stiff, medium plastic, dry, calcareous
8-9	8.0'-9.0'	1.0% 1.0'				
9-10	9.0'-10.0'	1.0% 1.0'			SC	CLAYEY sand, 25% clay, fine to coarse grained sand, medium dense, moist, 10YR 5/6, yellowish brown, v. low plastic

Drill Site Geologist: Steve Page

Date: 7/28/87

Reviewed By: Joseph L. Reed

Date: 9/29/87

Borehole: EP-74A

Well Number: _____

Depth - feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
11-8	10.9'-12.0' 2.0' 2.0'				SC	clayey sand, (see pg 1) ↓ ↓
12-9	12.0'-14.0' 2.0' 2.0'				SP	Poorly graded sands, medium to very coarse grained sand, 10% small gravel, 2.5Y 7/4, pale yellow, medium dense, moist, non plastic gravel decrease to 2% at 13'
14-10	14.0'-16.0' 2.0' 1.7'					↓ ↓
16-11	16.0'-17.0' 1.0' 1.0'					gravel % increases to 10% at 16.0', small gravel ↓ ↓
17-12	17.0'-19.0' 2.0' 1.8'				SP	Poorly graded sands, 7% clay, 10% gravel, small to medium size, coarse to very coarse grained sands, dense, moist, 2.5Y 6/8, olive yellow, claystone clasts, medium gravel in size
19-13	19.0'-20.0' 1.0' 2.0'					↓ ↓

Drill Site Geologist: Steve Pans

Date: 7/28/87

Reviewed By: Joseph L. Reed

Date: 9/29/87

Borehole: EP-74A

Well Number: _____

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
21	3 19.0'-21.0'	2.0% 2.0%	Same as tube number	Same as tube interval		Poorly graded sands (see page 2)
22	4 21.0'-22.0'	1.0% 2.0%				
23						
24	5 23.0'-25.0'	2.0% 2.0%				
25					SP	Poorly graded silts, coarse to very coarse grained sands, 8% small gravel, 2.5Y 5/4, light olive brown, dense, saturated
26	6 25.0'-27.1'	2.0% 2.1%				Claystone, bedrock, weathered, 5Y 5/3, olive, Fe stains, blocky structure, carbon, calcareous, 20% silt at 26.5', unweathered
27						Total depth 27.1'

Drill Site Geologist: Steve Rasmussen

Date: 2/28/87

Reviewed By: Joseph L. Reed

Date: 9/29/87

DEPTH FEET	MUS. INT.	Width	Structure / Bedding		Hardness	Perm.		Mineralogy		Color	Texture / Grain Size clst ad gr mm	Lith. Char	Lith. Class	Description / Comments
			Angle	Desc.		1°	2°	Min	Hab					
					S	H	H	L	H	(M) G	01 10 100			CM (Scale 1" = 2' (1))
26'														Water at 24.75'
														bedrock at 25.50'
														Casing set to 26'
														Begin coring at 27'
28'										2.5y		27'	CL	<u>CLAYSTONE</u>
										6/4				mottled gray/brown and
										lt. yellow				yellow/brown
										brown				
30'														
32'														
34'														
36'														
38'										2.5y				
										N5/0				
										gray				
										lt. brown				
										gray				
40'										2.5y		39'	St	<u>SILTSTONE</u> - sandy, clayey
										N5/0				calc. cement
										gray				oxidation boundary
										lt. brown				
										gray				
42'										2.5y		40.6'	Lg	<u>LIGNITE</u>
										N2/0				
										black				

BORE EP-74 WELL(S)

ESE, Inc.

Core No.	Depth (ft)	Structure / Bedding	Hardness	Ferm	Mineralogy		Color	Texture / Grain Size	Lith. Char.	Lith. Class	Description / Comments
					Min	Major					
66	5	fine bedding (variate)			cbn 4%	2.5y N5/0 gray				SS	SANDSTONE
68	4.3	massive			calc. 5%	2.5y N3/0 very dk. gray			Lithic Frags	CL	CLAYSTONE
70											
72											
74	5				calc. 30%						
76											
78	5				cbn 30% (perforated)					ST	SILTSTONE - carbonaceous
80	5				calc. 2%					SS	SILTY SANDSTONE
82					calc. 2%						

Hole No.	DEPTH Feet	Room	Structure/ Bedding		Hard- ness	Perm		Mineralogy		Color	Texture/ Grain Size classified as mm	Lith. Char	Lith. Class	Description/Comments
			Angle	Desc		1"	2"	Min	Habit					
	86													
	88													
	90													
	92													
	94													
	96													
	98													
	100													
	102													

Massive



90%
max.
2%
min.
3%
80%
lith.
frag.

50%
cbn
grains
1/10

50%
cbn
frag.
1/10

2.54
N5/0
gray

SS

SANDSTONE

Wk. to med. cementing -
rock sl. friable

97.4
97.7 } LIGNITE SEAM - HARD

coarser, more lith. & cbn frag.

98.7

E, Inc. BORE EP-74 WELL(S)

NO. 10	DEPTH Feet	Hgt. in	Weather	Structure / Bedding		Hard- ness	Perm.		Mineralogy		Color	Texture / Grain Size classified in mm	Lith. Char.	Lith. Class	Description / Comments
				Angle	Desc.		1"	2"	Min	Major					
						S	HL	HL	H		(M) G	of 1.0 100		FI	CM (Scale 1" = 2' (1))
	104	4 5/8			Massive						2.5y N5/0 gray			SS	SANDSTONE sandstone weakly cemented / friable
	110	5 1/8													
	112														
	114	4.3 5/8									2.5y N3/0 very dk. gray		114"	CL	CLAYSTONE
	116														
	118	5 1/8													
	120				fine, undulating bedding						2.5y N5/0 gray		114" silt 10%	SS	SANDSTONE INTERBED silty, fine grained sandstone
	122												120.2 silt 10%	CL	CLAYSTONE - silty
															Total Depth 122'

BORE EP-74 WELL(S)

ESE, Inc.



Frontier Logging

Lakewood, Colorado

ESE

EP-74

RMA

ADAMS COUNTY

COLORADO

Date Aug. 4, 1987

122 FT

3 7/8"

26 FT PVC

water & native mud

0945

110

Wm Linton

Lakewood

Ground Level

Ground Level

Log Measured From

Log Measured From

T.D. Logged

119 FT

103-1041

200 Scale

2

1.60 x 10⁻⁵

1.10

3/4 x 1 1/4"

7

3 7/8"

90 ohms/5"

30 MV/Inch

15 1/8"

15 1/8"

15 1/8"

15 1/8"

15 1/8"

15 1/8"

15 1/8"

15 1/8"

15 1/8"

15 1/8"

30 MV/Inch

1000 ft

1000 ft

Altitude

Survey Depth

True Vertical

NATURAL GAMMA

20 cps

1000 ft

S.P.

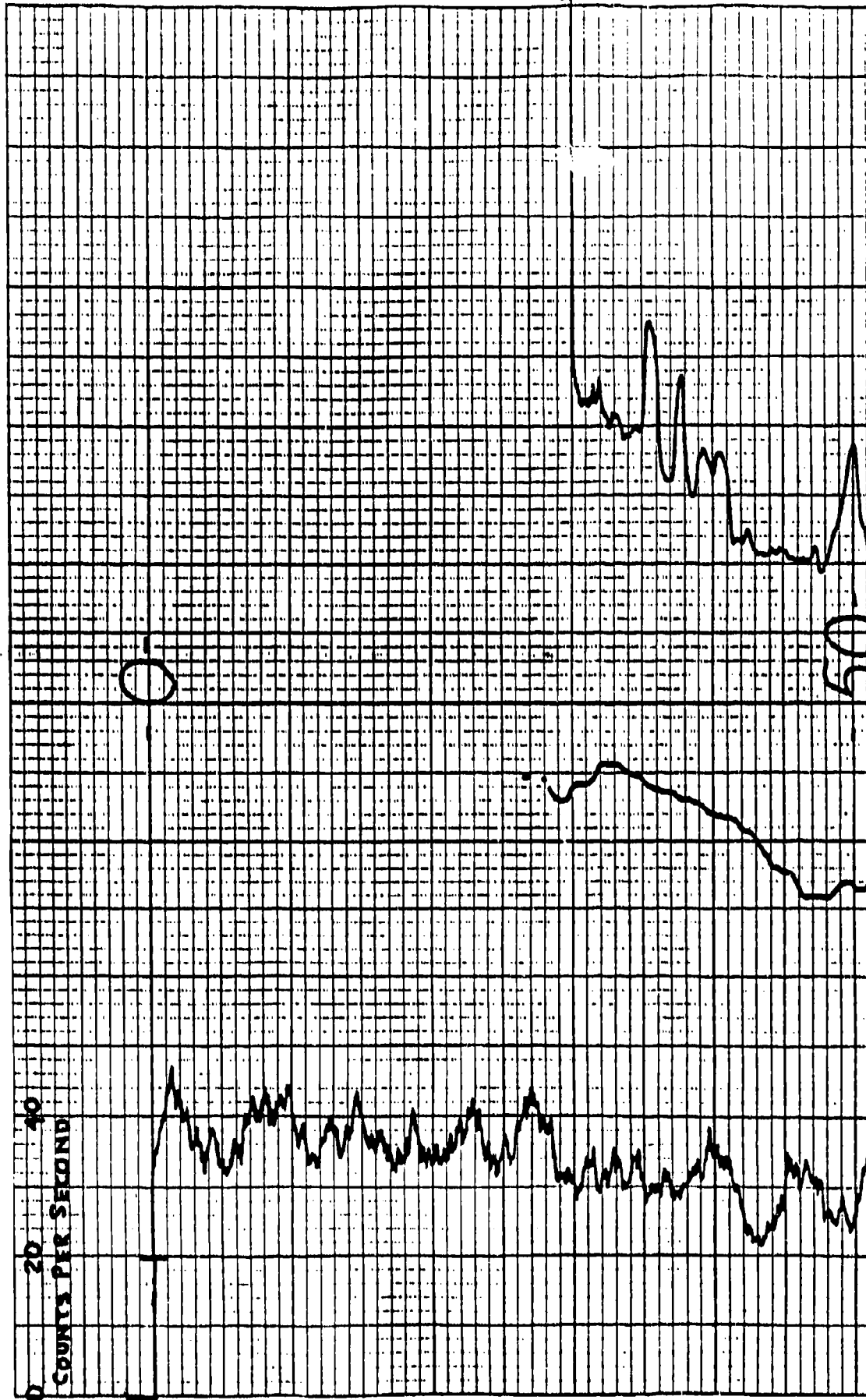
30 MV

RESISTANCE

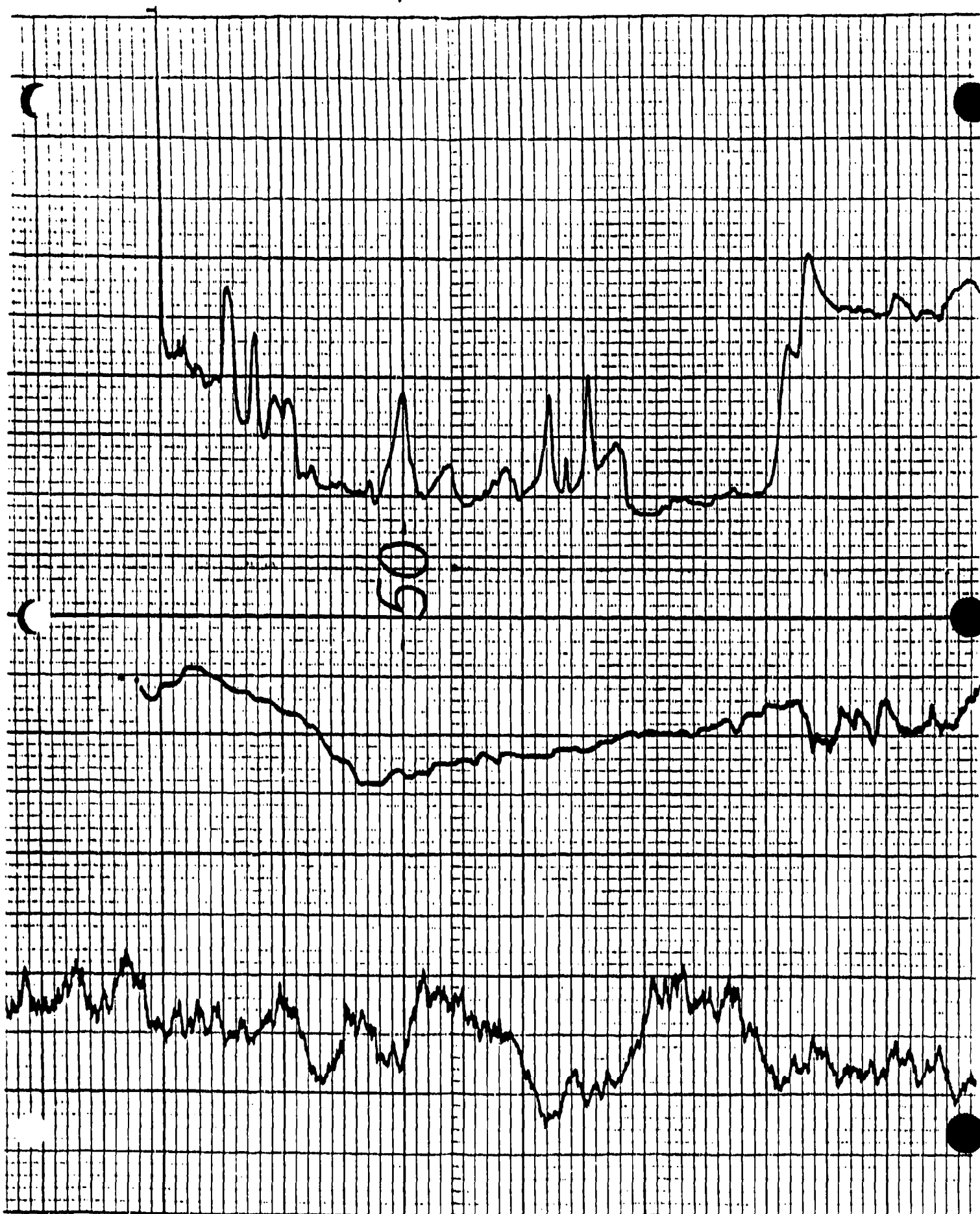
90

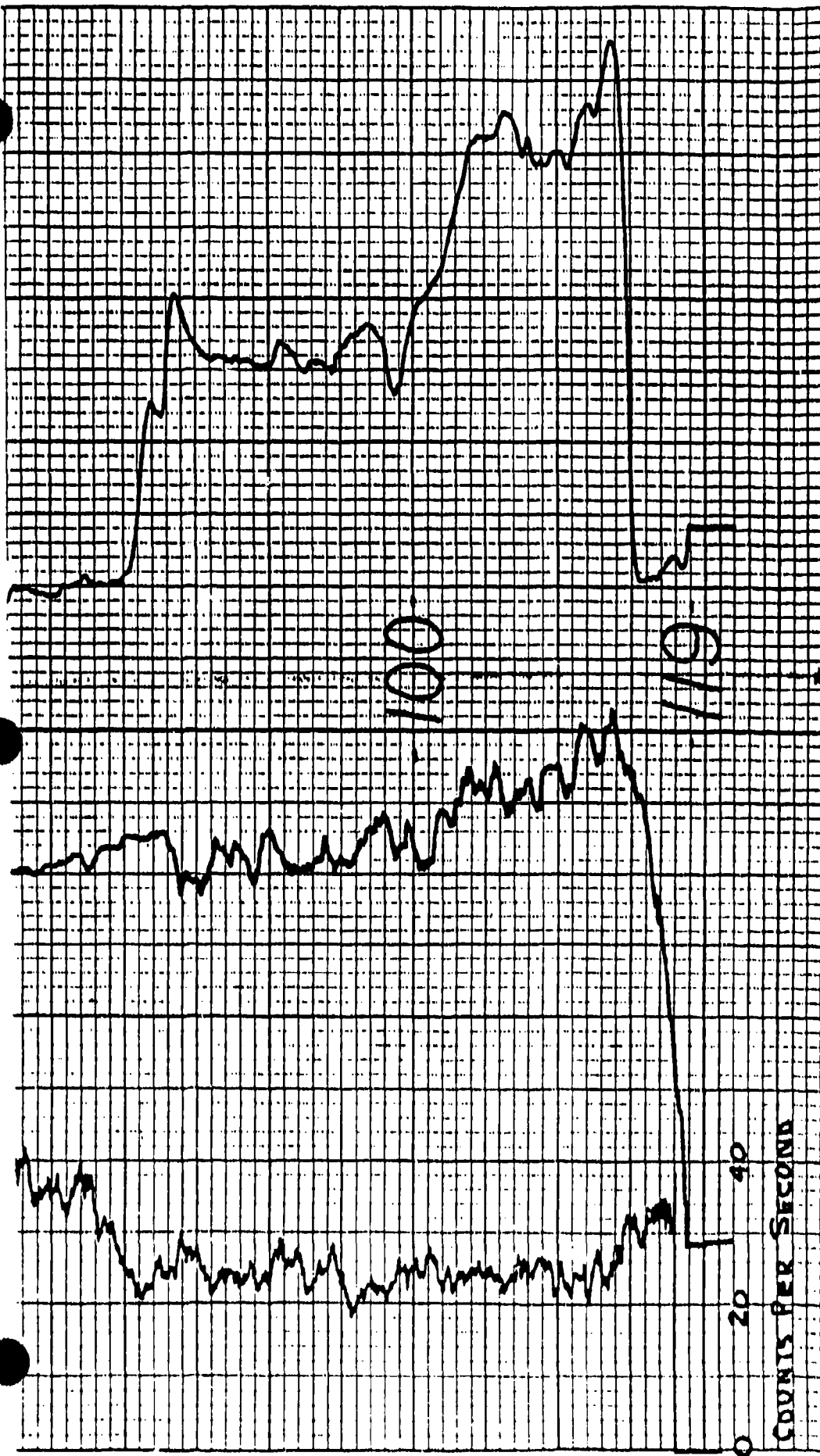
OHMS/ 5 inches

0 20 40
COUNTS PER SECOND



FRONTIER LOGGING CORPORATION





NATURAL

GAMMA

S.P.

30 MV/INCH

RESISTANCE

90 OHMS/5 INCHES

EP 74

WELL CONSTRUCTION SUMMARY

Borehole EP-74A Well 24196
Project Name and Location RMA Section 24 Task 44 Project Number _____
Drilling Company Boyles Bros. Driller Don Irvine Rig Number IR
Drilling Method(s) Continuous sampled using 3 1/4" ID, 3 5/8" OD Hollow stem
Reamed with 12 1/4" Hollow stem Auger
Borehole Diameter 5 1/2 in. _____ cm. 0.0 ft. _____ cm. to 27.10 ft. _____ cm.
12 1/4 in. _____ cm. 0.0 ft. _____ cm. to 27.47 ft. _____ cm.

Size(s) and types of Bit(s) Auger
Size and Type PVC 4" sched 40
Total Borehole Depth 27.47 ft. _____ cm.
Depth to Bedrock 25.5 24.75 ^{SP} ft. _____ cm.
Depth to Water 24.75 ft. _____ cm.
Water Level Determined By samples + tapping
Length Plain PVC (total) 20.12 ft. _____ cm.
Length of Screen 10.84 ft. _____ cm.
Total Length of Well Casing 29.06 ft. _____ cm.
PVC Stick Up 1.70 ft. _____ cm.
Depth to Bottom of Screen 27.36 ft. _____ cm.
Depth to Top of Screen 16.52 ft. _____ cm.
Depth to Top of Sand 11.00 ft. _____ cm.
Depth to Top of Bentonite 6.00 ft. _____ cm.

Sampling Method(s) Mobile continuous sample
Date/Time Start Drilling 7/22/87 0731
Date/Time Finish Drilling 7/22/87 1205
Date/Time Start Completion 7/23/87 0710
Date/Time Cement Protective Casing 7/23/87 0921
Materials Used _____
Plain PVC 2 - 10' sections (1 cut)
Slotted PVC 1 - 10' section
Bentonite Pellets 5 buckets
Bentonite Granular 1/8 bag
Cement 3 bags
Sand 11 bags
Water added during completion 0
Water added during drilling 0
Total Gallons of water added 0

Drill Site Geologist Steve Pans

Date 7/24/87

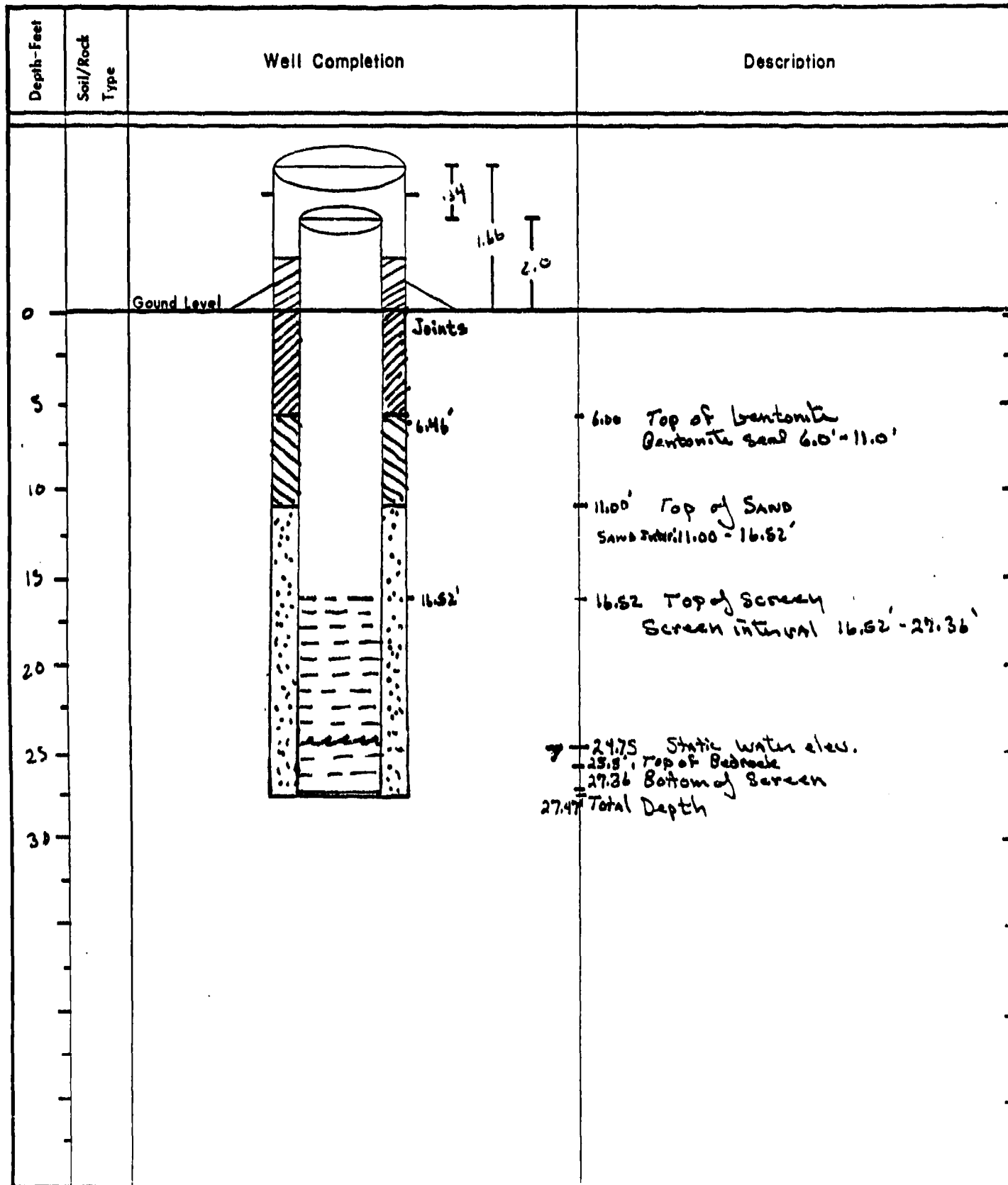
Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 7/25/87 Steve Pans
Date/Time/Personnel Casing Painted 7/26/87 Steve Pans
Date/Time/Personnel Numbers Painted 3/28/88 Steve Pans
Materials Used 12 bags of substrate

Top of Protective Casing to Top of PVC 0.34 ft. _____ cm. COMMENT/NOTES
Top of Protective Casing to Weep Hole 1.3 ft. _____ cm.
Top of Protective Casing to Internal Mortar 1.55 1.95 ^{25"} ft. _____ cm.
Top of Protective Casing to Top of Cement Pad 1.95 ft. _____ cm.
Top of Protective Casing to Ground Level 2.0 ft. _____ cm.

Reviewed By Steve Pans Date 7/27/87
Drill Site Geologist Steve Pans Date 7/27/87

Borehole: EP-74A

Well: 24196



Drill Site Geologist: Steve Paul
Reviewed By: [Signature]

Date: 7/24/87
Date: 7/24/87

WELL DEVELOPMENT DATA

Bore EP-74A Well 24196

Project RMA ON-POST Project Number TASK 44

Date(s) Developed 09/03/87 Date Installed 7/23/87

Personnel (Name/Company) DLW/ESE
PTB/ESE Well Diameter (I.D.) 4 in.

Rig Used ESE WELL SERVICE TRUCK Anulus Diameter 12 1/4 in. 0 ft. to 27.36 ft.

Pump (Type/Capacity) GRUNDFOS / 700PM Screen Interval 16.52 ft. to 27.36 ft.

Bailer (Type/Capacity) N/A Casing Height (Above G.L.) 1.70 ft.

Water Source RMA Bottom of Screen (Below G.L.) 27.36 ft.

Measured Well Depth TOC (Initial) 29.12 ft.
(Final) 25.12 ft.

Water Level TOC/Date/Time (Initial) 25.72 / 09-03-87 / 0932
(after 24 hrs.) 25.73 / 09/25/87 / 14:30

Feet of Water in Well 3.4 ft. x 2.32 gallons/foot = 7.89 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 5.00 7.9 gallons

Purge Water Lost 1/A gallons Minimum Purge Volume 39.5 gallons

Added Water 0 gallons Total Purge Volume 100 gallons

Casing/Anulus Volume 7.89 gallons Volume Measured By 5 GALLON BUCKET

Surge Technique RAISE/LOWER PUMP

Calibration: pH Meter Used: BECKMAN ϕ 21 SN: 015003

pH 7.00 = 7.00 at 23.8 °C. pH 10.00 = 10.02 at 24.5 °C

Conductance Meter Used: CMS DIGITAL SN: 11341

Standard 1413 umhos/cm at 25°. Reading 1412 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)	
Initial	0.0	1024	23.9	8.41	1945	Very Cloudy (cloudy) w/ orange-brown silt.
	10	1040	17.0	7.69	2110	Cloudy w/ orange-brown silt.
	20	1050	16.4	7.71	2060	Slightly cloudy, w/ brown silt.
	30	11:00	16.7	7.82	2100	Slightly Cloudy w/ brown silt.
	40	11:10	16.7	7.88	2080	Slightly Cloudy
Final	50	11:30	16.7	7.70	2100	Slightly cloudy w/ brown silt.

Remarks: Initial HNA (TOC) = 0.0 ppm
Flow rate = 1 gpm.

Collected by [Signature] Date 09/03/87

Checked by [Signature] Date 09/03/87

WELL DEVELOPMENT DATA

Bore EP-74 A Well 24196

Project RMA ON-POST Project Number Task 44

Date(s) Developed 09/03/87 Date Installed 7/23/87

Personnel (Name/Company) DLW / ESE Well Diameter (I.D.) 4 in.

DRS / ESE Anulus Diameter 12 1/4 in. 0 ft. to 27.36 ft.

Rig Used ESE WASH SERVICES TRUCK Screen Interval - in. - ft. to - ft.

Pump (Type/Capacity) CAVENDISH / 70 gpm Screen Interval 1652 ft. to 27.36 ft.

Bailer (Type/Capacity) N/A - ft. to - ft.

Water Source RMA Casing Height (Above G.L.) 1.70 ft.

Measured Well Depth TOC (Initial) 29.12 ft. Bottom of Screen (Below G.L.) 27.36 ft.

(Final) 29.12 ft.

Water Level TOC/Date/Time (Initial) 25.73 / 09-03-87/0132

(after 24 hrs.) 25.73 / 09-25-87/14:30

Feet of Water in Well 3.4 ft. x 2.12 gallons/foot = 7.9 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 7.9 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 29.5 gallons

Added Water 0 gallons Total Purge Volume 100 gallons

Casing/Anulus Volume 7.9 gallons Volume Measured By 5 GALLON BECKET

Surge Technique EMER / LOWEST PUMP

Calibration: pH Meter Used: BECKMAN 421 SN: 015883

pH 7.00 = 6.99 at 28.7 °C, pH 10.00 = 9.99 at 22.9 °C

Conductance Meter Used: CMS DIGITAL SN: 11741

Standard 1413 umhos/cm at 25°, Reading 1413 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
60	1143	16.7	7.54	2120	Very slightly cloudy.
70	1156	16.9	7.63	2100	Slightly cloudy w/ brown silt.
80	1209	17.2	7.54	2120	cloudy w/ brown silt.
90	1225	17.4	7.51	2110	Slightly cloudy w/ brown silt.
100	1237	17.1	7.45	2110	very slightly cloudy.
Final					

Remarks: Recalibration before 100 gallon volume.

Flow rate = 0.72 gpm.

THU(TOC) = 0.1 ppm @ 80 gallon vol.

Collected by DLW 09/03/87 Date

Signature DLW

Checked by DLW 09/03/87 Date

Signature DLW

WELL CONSTRUCTION SUMMARY

Borehole EP-74D1 Well 24197
Project Name and Location RMA section 24 MW installation Project Number 744
Drilling Company Boyles Bros Driller Bob Roach Rig Number Farling 1500
Drilling Method(s) Rotary

Borehole Diameter 16 1/4 in. 0 ft. 30.5 cm.
7 7/8 in. 30.5 ft. 69.5 cm.

Size(s) and types of Bit(s) 1 1/4" blade, 7 7/8" blade

Size and Type PVC 4" sched.

Total Borehole Depth 69.5 ft. cm.

Depth to Bedrock 25.5 ft. cm.

Depth to Water — ft. cm.

Water Level Determined By —

Length Plain PVC (total) 60.31 ft. cm.

Length of Screen 10.69 ft. cm.

Total Length of Well Casing 71.0 ft. cm.

PVC Stick Up 1.70 ft. cm.

Depth to Bottom of Screen 69.30 ft. cm.

Depth to Top of Screen 58.35 ft. cm.

Depth to Top of Sand 55.74 ft. cm.

Depth to Top of Bentonite 50.64 ft. cm.

Drill Site Geologist Steve Paris

Sampling Method(s) —

Date/Time Start Drilling 8/24/97 0737

Date/Time Finish Drilling 8/27/97 0950

Date/Time Start Completion 9/27/97 1117

Date/Time Cement Protective Casing 8/25/97 1135

Materials Used 2 centrifuges, well cap

Plain PVC 6-10' sections

Slotted PVC 1-10' section

Bentonite Pellets 1 2/3 buckets

Bentonite Granular 180 lbs

Cement 36 bags

Sand 2 3/4 bags

Water added during completion —

Water added during drilling —

Total Gallons of water added 0

Date 9/3/97

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 9/10/98 1530 DLW 1235

Date/Time/Personnel Casing Painted 9/11/98 1030 DLW 1250

Date/Time/Personnel Numbers Painted 3/23/98 1030 DLW 1250

Materials Used 10 bags of bentonite

Top of Protective Casing to Top of PVC 0.39 ft. cm. COMMENT/NOTES

Top of Protective Casing to Weep Hole 1.40 ft. cm.

Top of Protective Casing to Internal Mortar 1.50 ft. cm.

Top of Protective Casing to Top of Cement Pad 1.80 ft. cm.

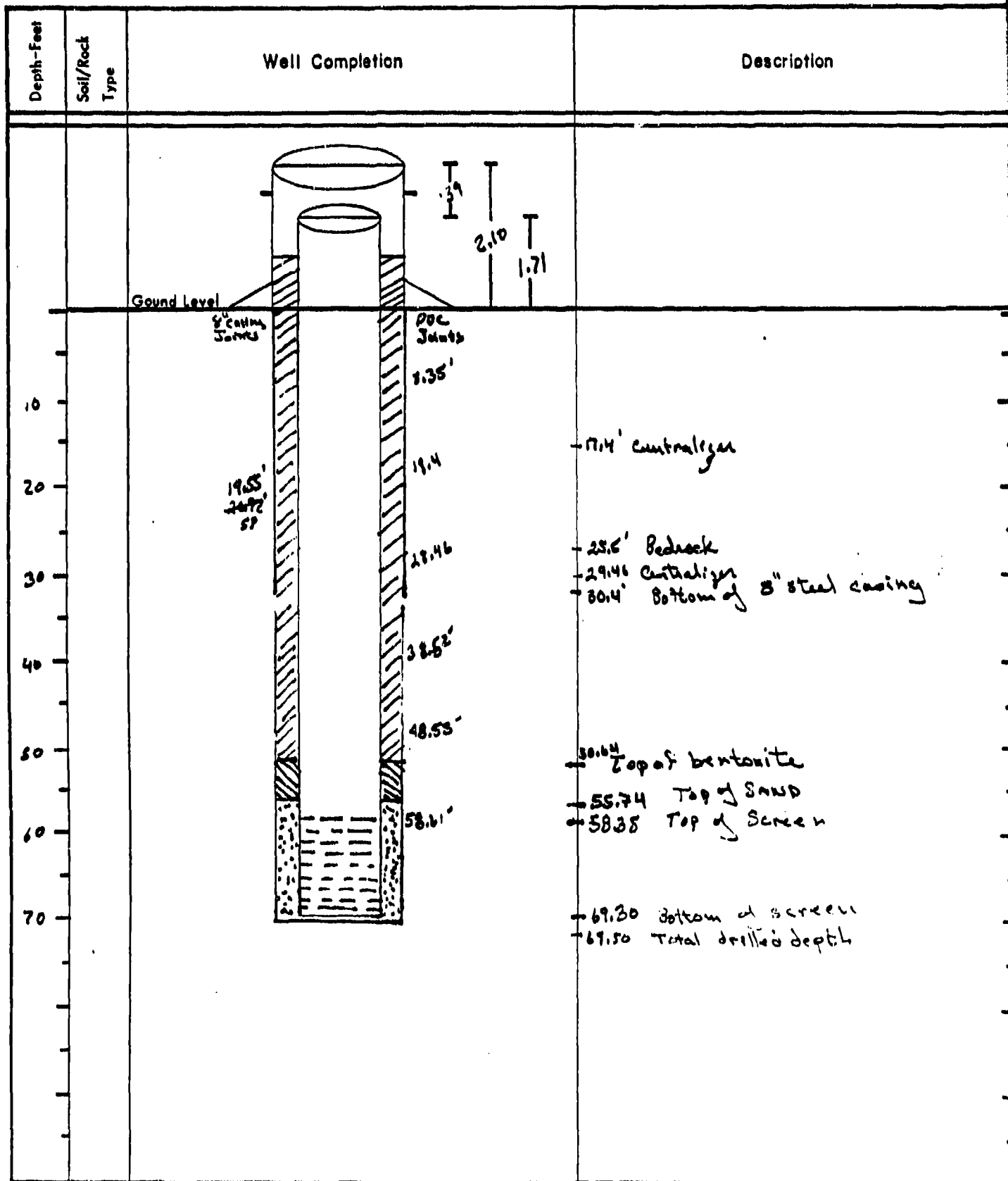
Top of Protective Casing to Ground Level 2.10 ft. cm.

Reviewed By [Signature] Date 9/1/98

Drill Site Geologist [Signature] Date 9/1/98

Borehole: EP-74D1

Well: 24197



Drill Site Geologist: [Signature]
Reviewed By: [Signature]

Date: 9/10/87
Date: 2/1/88

WELL DEVELOPMENT DATA

Project RMA ON-POST Bore EP-74 D1 Well 24197
Project Number TASK 44
Date(s) Developed 9/22/87 Date Installed 8/27/87
Personnel (Name/Company) DLW/FSE Well Diameter (I.D.) 4 in.
DJB/FSE Annulus Diameter 16 1/4 in. 0 ft. to 30.5 ft.
23 in. 30.5 ft. to 69.5 ft.
Rig Used ESE WITH SFE USE TRUCK Screen Interval 58.35 ft. to 69.30 ft.
Pump (Type/Capacity) GRUNDOS / 7 GPM Casing Height (Above G.L.) 1.7 ft.
Baller (Type/Capacity) N/A Bottom of Screen (Below G.L.) 69.30 ft.
Water Source RMA
Measured Well Depth TOC (Initial) 71.07 ft.
(Final) _____ ft.
Water Level TOC/Date/Time (Initial) 30.45 / 9-22-87 / 0838
(after 24 hrs.) 31.22 / 10-7-87 / 1635
Feet of Water in Well 40.62 ft. x 0.653 gallons/foot = 26.5 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 40 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 200 gallons
Added Water 0 gallons Total Purge Volume 200 gallons
Casing/Annulus Volume 26.5 gallons Volume Measured By 5 GALLON JUMPER / TUBES
Surge Technique RISE / LOWER PUMP
Calibration: pH Meter Used: BECKMAN 421 SN: 015883
pH 7.00 = 7.04 at 13.1 °C, pH 10.00 = 10.14 at 13.1 °C
Conductance Meter Used: CMS D-017M SN: 11341
Standard 1413 umhos/cm at 25°, Reading 1414 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 0	0910	14.2	8.70	544	very cloudy w/ chunky grey silt
Deaerated @ 30	0937	13.5	9.56	386	partly cloudy w/ grey silt
Deaerated @ 37	1122	16.5	9.38	404	murky w/ grey silt
Final					

Remarks: Initial H₂O(TOC) = 0.0 gpm.
Initial pumping rate = 1.25 gpm.
Bottom of screen = 69.30
Top of sand = 58.74
13.56 ft - height of sand.

Sand pack vol: 13.56 ft x 0.852 g/ft = 11.5 g.
1 Purge vol: 26.5 gal (casing vol)
+ 13.6 gal (sand pack vol)

Collected by [Signature] Date 9/22/87
Checked by [Signature] Date 10/1/87

WELL DEVELOPMENT DATA

Project RNA - ON-POST Bore EP-7401 Well 24197
Date(s) Developed 9/22/87 Project Number T-5644
Personnel (Name/Company) DLW/BAE Date Installed 4/27/87
PJB/BAE Well Diameter (I.D.) 4 in.
Anulus Diameter 16 1/2 in. 0 ft. to 30.5 ft.
73 in. 30.5 ft. to 69.5 ft.
Rig Used ESE with SERVICE TRUCK Screen Interval 58.75 ft. to 69.50 ft.
Pump (Type/Capacity) N/A Casing Height (Above G.L.) 17 ft.
Bailer (Type/Capacity) 385" x 2.0' Bottom of Screen (Below G.L.) 69.50 ft.
Water Source RNA
Measured Well Depth TOC (Initial) 71.07 ft.
(Final) ft.
Water Level TOC/Date/Time (Initial) 30.45 / 9-22-87 / 0818
(after 24 hrs.)
Feet of Water in Well 40.62 ft. x 0.653 gallons/foot = 26.5 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 40 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 200 gallons
Added Water 0 gallons Total Purge Volume 200 gallons
Casing/Anulus Volume 26.5 gallons Volume Measured By 5 column buret
Surge Technique Balanced
Calibration: pH Meter Used: BECKMAN 821 SN: 015883
pH 7.00 = 7.03 at 16.7 °C, pH 10.00 = 10.10 at 16.6 °C
Conductance Meter Used: ONS DORTCH SN: 11341
Standard 1413 umhos/cm at 25°, Reading 1414 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
37 gal	0915	12.4	8.34	916	clear
50 gal	0927	12.1	8.30	946	mostly clear
67 gal	0946	12.4	8.74	883	clear w/ grey silt
<u>Decontaminated</u>					
<u> </u>					
Final					

Remarks: Initial water TOC = 0.0 ppm 1st Surfactant = 36.25 / 9-22-87 / 09105
Water decontaminated 12.30 gallons
Purge vol. 26.5 gal (casing vol) Collected by [Signature] 9/23/87 Date
136 gal / Sand permit vol Checked by [Signature] 6/1/88 Date
40.1 gal

WELL DEVELOPMENT DATA

Project RMA ON Post Bore EP-74 D1 Well 24197
 Date(s) Developed 09-24-87 Project Number 0013 Task 477
 Personnel (Name/Company) PJB ESE Date Installed 8/27/87
GLV ESE Well Diameter (I.D.) 8 1/2 in.
 Anulus Diameter 16 1/4 in. 0 ft. to 20.5 ft.
2 1/8 in. 20.5 ft. to 68.30 ft.
 Rig Used ESE Well Service Truck Screen Interval 58.35 ft. to 68.30 ft.
 Pump (Type/Capacity) Geo Tech - ISCO 1.3 gpm Casing Height (Above G.L.) 1.7 ft.
 Bailer (Type/Capacity) N/A Bottom of Screen (Below G.L.) 68.30 ft.
 Water Source RMA
 Measured Well Depth TOC (Initial) 71.07 ft.
 (Final) ft.
 Water Level TOC/Date/Time (Initial) 30.45 / 09-22-87 / 0838
 (after 24 hrs.)
 Feet of Water in Well 40.62 ft. x 0.653 gallons/foot = 26.5 gallons casing/anulus volume
 Drilling Fluid Lost N/A gallons One Purge Volume 10 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 200 gallons
 Added Water 0 gallons Total Purge Volume 200 gallons
 Casing/Anulus Volume 26.5 gallons Volume Measured By 5 gal Bucket
 Surge Technique Raise Pump
 Calibration: pH Meter Used: Beckman 01 SN 015883
 pH 7.00 = 7.03 at 7.4 °C. pH 10.00 = 10.10 at 17.1 °C
 Conductance Meter Used: ONS Dig. 4A1 SN 11341
 Standard 1409 umhos/cm at 25°. Reading 1403 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 67gal.	0910	13.1	8.20	1060	slightly milky, little silt, trace fine sand
100gal.	1007	16.2 15.8 GLV	8.16 8.43 GLV	856	slightly milky, some silt, trace fine sand
Final 100gal					

Remarks: Well Dewatered after pumping another 33 gallons
HNU TOC 2.5 Back Ground O.I.

26.5 gal (Casing Vol)
13.6 gal

Collected by Lang - L. [Signature] Date 9/24/87
 Checked by [Signature] Date 11/1/87

WELL DEVELOPMENT DATA

Bore FD 74 D-1 Well 24197
Project RMA ON Post Project Number 87937 0210 Task 44
Date(s) Developed 09-25-87 Date Installed 08-27-87
Personnel (Name/Company) PJA ESE Well Diameter (I.D.) 4 in.
GLV ESE Annulus Diameter 16 1/4 in. 0 ft. to 30.5 ft.
7 3/8 in. 30.5 ft. to 69.5 ft.
Rig Used ESE Well Service TRAC Screen Interval 58.3 ft. to 69.30 ft.
Pump (Type/Capacity) Geotech/Isco 1.3 gpm Casing Height (Above G.L.) 1.7 ft.
Bailer (Type/Capacity) N/A Bottom of Screen (Below G.L.) 69.30 ft.
Water Source RMA
Measured Well Depth TOC (Initial) 76.07 ft.
(Final) ft.
Water Level TOC/Date/Time (Initial) 30.45 / 09-22-87 / 0838
(after 24 hrs.) ft.
Feet of Water in Well 40.62 ft. x 0.653 gallons/foot = 26.50 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 40 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 200 gallons
Added Water 0 gallons Total Purge Volume 200 gallons
Casing/Annulus Volume 26.5 gallons Volume Measured By 5 gal Bucket
Surge Technique Raise & Lower Pump
Calibration: pH Meter Used: Beckman 021 SN 015883
pH 7.00 = 7.01 at 20.3 °C pH 10.00 = 10.06 at 20.4 °C
Conductance Meter Used: CMS Digital SN 11341
Standard 1413 umhos/cm at 25°, Reading 1413 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25 °C	Physical Characteristics (clarity, color, sand content, color)
Initial 100	11:30	14.3	8.08	1072	Clear
115	11:45	15.0	8.08	1006	Clear
130	12:20	15.0	8.21	920	Clear
				GLV	
Final					

Remarks: HWH TOC 0.4 Bucky/Remmi 0.4

Casing Vol 26.5
Sand Pack 13.6
40% PGB
40.1

Collected by Harry L. D. Miller Date 9/1/88
Checked by Paul L. West Date 9/1/88

WELL DEVELOPMENT DATA

Bore EP 74 D-1 Well 24197

Project AWA ON Post Project Number 87937 C210 TASK 44

Date(s) Developed 09-28-87 Date Installed 08-27-87

Personnel (Name/Company) P.T.B. ESE Well Diameter (I.D.) 4 in.

GLV ESE Annulus Diameter 16 1/4 in. 0 ft. to 30.5 ft.

Rig Used ESE Well Service TRUCK 7 7/8 in. 30.5 ft. to 69.5 ft.

Pump (Type/Capacity) Geotech / TGC 1.3 GPM Screen Interval 58.35 ft. to 69.50 ft.

Bailer (Type/Capacity) N/A ft. to ft.

Water Source RMA Casing Height (Above G.L.) 1.7 ft.

Measured Well Depth TOC (Initial) 71.07 ft. Bottom of Screen (Below G.L.) 69.30 ft.

(Final) ft.

Water Level TOC/Date/Time (Initial) 30.45 / 09-22-87 / 0838

(after 24 hrs.) ft.

Feet of Water in Well 40.62 ft. x 0.653 gallons/foot = 26.50 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 40 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 200 gallons

Added Water 0 gallons Total Purge Volume 200 gallons

Casing/Annulus Volume 26.5 gallons Volume Measured By 5 gal Bucket

Surge Technique Raise & Lower Pump

Calibration: pH Meter Used: BECKMAN ET 21 SN 015883

pH 7.00 = 7.04 at 14.7 °C, pH 10.00 = 76.50 at 13.4 °C

Conductance Meter Used: CMS 2541 SN 11341 10.14

Standard 1413 umhos/cm at 25°, Reading 1413 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 130	0920	11.4	8.32	1200	clear, 1 L. PA
145	0938	11.3	8.33	1036	clear
165	1003	11.7	8.37	1024	clear
Final					

Remarks: AWA FC 1.2 Background 0.2 MVA 2005 20.11

1.0 mho/cm at 35 gallons

CHS NG 101 10.5
SNV 100 10.6
20.1

Collected by John P. Smith Signature John P. Smith Date 10/1/88

Checked by John P. Smith Signature John P. Smith Date 10/1/88

WELL DEVELOPMENT DATA

Project RMA ON POST Bore EP74 D-1 Well 24197
Date(s) Developed 09-30-87 Project Number 87937 0210 TASK 44
Personnel (Name/Company) PTA ESE Date Installed 08-27-87
GLV ESE Well Diameter (I.D.) 4 in.
Rig Used ESE WELL SERVICE TRUCK Anulus Diameter 16 1/4 in. 0 ft. to 30.5 ft.
Pump (Type/Capacity) Geotech/ISCO 1.3 cpm 7 1/2 in. 30.5 ft. to 69.5 ft.
Bailer (Type/Capacity) N/A Screen Interval 58.35 ft. to 69.30 ft.
Water Source RMA Casing Height (Above G.L.) 1.7 ft.
Measured Well Depth TOC (Initial) 71.07 ft. Bottom of Screen (Below G.L.) 69.30 ft.
(Final) ft.
Water Level TOC/Date/Time (Initial) 30.45 / 09-22-87 / 0838
(after 24 hrs.) 31.22 / 10-7-87 / 1635
Feet of Water in Well 40.62 ft. x 0.653 gallons/foot = 26.5 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 40 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 200 gallons
Added Water 0 gallons Total Purge Volume 200 gallons
Casing/Anulus Volume 26.5 gallons Volume Measured By 5 gal Bucket
Surge Technique Raise & lower Pump
Calibration: pH Meter Used: Beckman 621 SN 015883
pH 7.00 = 7.03 at 15.3 °C, pH 10.00 = 10.13 at 14.3 °C
Conductance Meter Used: GLV Dig. 411 SN 157
Standard umhos/cm at 25°, Reading umhos/cm at °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, color, sand content, color)
Initial 165	1105	13.7	8.24	1107	clear, slight
180	1139	13.3	8.33	1016	clear
200	1210	13.1	8.51	880	clear
Final 200					1913

Remarks: Hand TOC 0.7 Background C. 2 W/L 33.65

Collected by Philip [Signature] Signature Date
Checked by Signature Date

WELL CONSTRUCTION SUMMARY

Borehole EP-74 DZ Well 24198
Project Name and Location Section 24 Montion Well Project Number T461
Drilling Company Boyle Bros. Driller P. Roach Rig Number Fairing 500
Drilling Method(s) rotary

Borehole Diameter 16 1/4" in. 0 ft. 0 cm. to 21 ft. 0 cm.
12 1/4" in. 31 ft. 74.50 ft. 0 cm.
7 7/8" 74.50 ft to 117.00 ft.

Size(s) and types of Bit(s) 16 1/4" blade,
12 1/4" blade, 7 7/8" blade

Size and Type PVC 4" schd 40

Total Borehole Depth 117.0 ft. 0 cm.

Depth to Bedrock 25.5 ft. 0 cm.

Depth to Water 0 ft. 0 cm.

Water Level Determined By 0

Length Plain PVC (total) 30.80 ft. 0 cm.

Length of Screen 37.24 ft. 0 cm.

Total Length of Well Casing 118.04 ft. 0 cm.

PVC Stick Up 1.70 ft. 0 cm.

Depth to Bottom of Screen 116.34 ft. 0 cm.

Depth to Top of Screen 79.10 ft. 0 cm.

Depth to Top of Sand 73.7 ft. 0 cm.

Depth to Top of Bentonite 67.25 ft. 0 cm.

Sampling Method(s) not sampled

Date/Time Start Drilling 8/28/87 0715

Date/Time Finish Drilling 9/2/87 1125

Date/Time Start Completion 9/2/87 1135

Date/Time Cement Protective Casing 9/1/87 1625

Materials Used well cap, lock

Plain PVC 8-10' sections, 1 cutting section

Slotted PVC 3-10' sections, 1-5 ft section

Bentonite Pellets 1 2/3 buckets

Bentonite Granular 5 1/2 buckets

Cement 54 bags

Sand 9 bags

Water added during completion 0

Water added during drilling 100 gal

Total Gallons of water added 100 gal

Drill Site Geologist Steve Paris

Date 9/2/87

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 9/1/87 0700 DLW 4750

Date/Time/Personnel Casing Painted 9/1/87 0920 DLW 4750

Date/Time/Personnel Numbers Painted 3/23/88 1000 SMP 1 R12

Materials Used 10 bags of cement

Top of Protective Casing to Top of PVC 0.27 ft. 0 cm. COMMENT/NOTES

Top of Protective Casing to Weep Hole 1.40 ft. 0 cm.

Top of Protective Casing to Internal Mortar 1.42 ft. 0 cm.

Top of Protective Casing to Top of Cement Pad 1.70 ft. 0 cm.

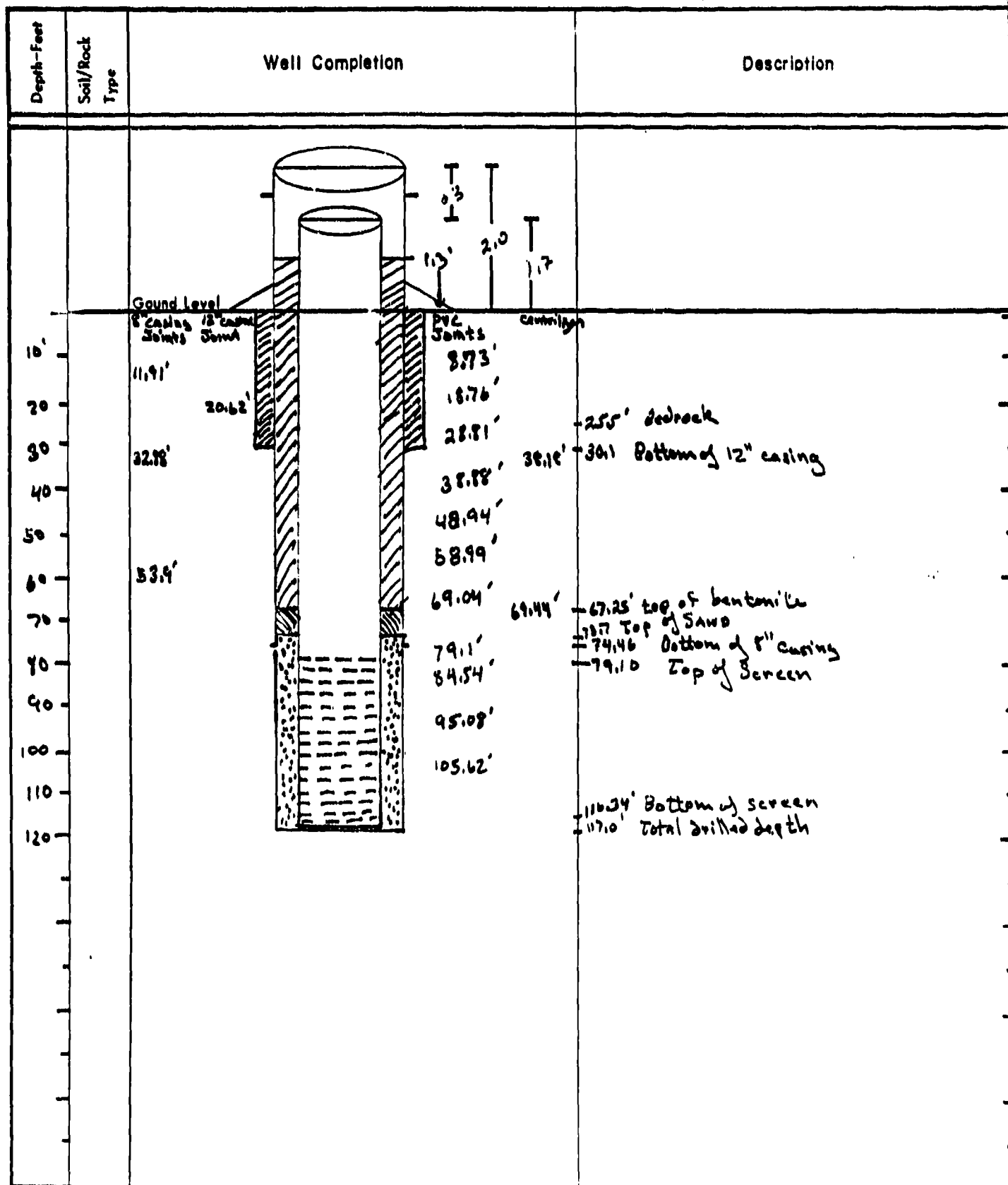
Top of Protective Casing to Ground Level 2.0 ft. 0 cm.

Reviewed By [Signature] Date 9/2/87

Drill Site Geologist [Signature] Date 9/2/87

Borehole: EP-75D2

Well: 24198



Drill Site Geologist: Steve Gask

Reviewed By: [Signature]

Date: 9/10/87

Date: [Signature]

WELL DEVELOPMENT DATA

Bore EP-7432 Well 24188

Project RMA ON-POST Project Number TASK 44

Date(s) Developed 7/22/87 Date Installed 9/2/87

Personnel (Name/Company) DLW/ESE
PJB/ESE

Rig Used PSE W44 SPURGE TRUCK

Pump (Type/Capacity) GRUNDFOS / 7 GPM

Bailer (Type/Capacity) N/A

Water Source 2.4.1

Measured Well Depth TOC (Initial) 117.45 ft.
(Final) ft.

Water Level TOC/Date/Time (Initial) 31.25/7-22-87/1055
(after 24 hrs.) 31.72/9-22-87/1448

Feet of Water in Well 86.2 ft. x 2.452 gallons/foot = 56.3 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons

Purge Water Lost N/A gallons

Added Water 100 gallons

Casing/Anulus Volume 56.3 gallons

One Purge Volume 142.6 gallons

Minimum Purge Volume 96.3 gallons

Total Purge Volume 1000 gallons

Volume Measured By SS 616.2um

Surge Technique Raise/Lower Pump

Calibration: pH Meter Used: TECKMAN 6021 SN: 015983

pH 7.00 = 7.00 at 22.4 °C, pH 10.00 = 10.07 at 22.5 °C

Conductance Meter Used: CHAS DIOXIDE SN: 11301

Standard 143 umhos/cm at 25°, Reading 1415 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>0 gal.</u>	<u>1321</u>	<u>15.6</u>	<u>11.46</u>	<u>1433</u>	<u>cloudy w/ grey silt</u>
<u>100 gal.</u>	<u>1431</u>	<u>14.2</u>	<u>11.41</u>	<u>615</u>	<u>fine black fine sand</u>
<u>200 gal.</u>	<u>1522</u>	<u>15.4</u>	<u>10.55</u>	<u>441</u>	<u>clear w/ black silt</u>
<u>270</u>	<u>1552</u>	<u>15.6</u>	<u>10.21</u>	<u>421</u>	<u>clear w/ black silt</u>
Final					

Remarks: Initial surge (100) - 0.05 gpm

* Final Anulus vol = 7.5 gal to 117.5

Flow rate = 1.2 gpm / 2.17 pm

Surge rate vol = 12.61 gal / 0.352 gal = 36 gal Collected by DLW

* 1 Purge vol = 56.3 gal (casing vol)
56.3 gal (anulus vol)
100 gal (added water)
112.6 gal

Checked by DLW

Signature DLW

Date 4/1/88

Signature

Date

WELL DEVELOPMENT DATA

Project RMA ON-POST Bore EP-74 D2 Well 24198
 Date(s) Developed 9/23/87 Project Number TASK 44
 Personnel (Name/Company) DLW/ESE Date Installed 9/2/87
DJO/ESE Well Diameter (I.D.) 4 in.
 Anulus Diameter 16 1/4 in. 0 ft. to 31 ft.
 Rig Used ESE WELL SERVICE TRUCK 12 1/4 in. 31 ft. to 74.5 ft.
 Pump (Type/Capacity) GRUNDOS / 26 GPM Screen Interval 79.1 ft. to 116.34 ft.
 Bailer (Type/Capacity) N/A ft. to ft.
 Water Source RMA Casing Height (Above G.L.) 1.7 ft.
 Measured Well Depth TOC (Initial) 117.45 ft. Bottom of Screen (Below G.L.) 116.34 ft.
 (Final) ft.
 Water Level TOC/Date/Time (Initial) 31.25 / 9-22-87 / 1055
 (after 24 hrs.) 31.72 / 9-28-87 / 1445
 Feet of Water in Well 86.2 ft. x 0.053 gallons/foot = 56.3 gallons casing/anulus volume
 Drilling Fluid Lost N/A gallons One Purge Volume 192.6 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 961 gallons
 Added Water 100 gallons Total Purge Volume 1600 gallons
 Casing/Anulus Volume 56.3 gallons Volume Measured By SS GROUND DIAM
 Surge Technique RAISE/LOWER PUMP
 Calibration: pH Meter Used: BECKMAN 421 SW: 015833
 pH 7.00 = 7.02 at 19.3 °C. pH 10.00 = 10.07 at 19.2 °C
 Conductance Meter Used: CALG DIOTHL SW: 11341
 Standard 1413 umhos/cm at 25°, Reading 1414 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
270	1022	13.3	10.80	462	mostly clear
400	1035	13.5	10.19	445	mostly clear
500	1050	13.7	9.85	420	clear
600	1107	13.3	9.81	414	clear
700	1123	13.2	9.74	415	clear
800	1135	15.6	9.75	413	clear

Remarks: Initial ANNA (TOC) = 0.0 ppm Water level = 31.7

* Final ANNA (TOC) = 7.4 7.5 to 117.0

Flow rate = 2.5 gpm

26X 1 Purge vol.: 56.3 gal (casing vol.)
56.3 gal (casing vol.)
+ 100.0 gal (initial water)
156.3 gal

Collected by [Signature] Date 9/23/87
 Checked by [Signature] Date 9/1/88

WELL DEVELOPMENT DATA

Project RNA ON-POST Bore E2-74DZ Well 24198
Date(s) Developed 9/23/87 Project Number TASK 44
Personnel (Name/Company) DLW/ESE Date Installed 9/2/87
DSB/ESE Well Diameter (I.D.) 4 in.
Rig Used ESE WELL SERVICE TRUCK Anulus Diameter 16 1/2 in. 0 ft. to 31 ft.
Pump (Type/Capacity) GRUNDFOS / 20 GPM * 12 1/4 in. 31 ft. to 74.5 ft.
Bailer (Type/Capacity) N/A Screen Interval 79.1 ft. to 116.04 ft.
Water Source RNA Casing Height (Above G.L.) 1.7 ft.
Measured Well Depth TOC (Initial) 117.45 ft. Bottom of Screen (Below G.L.) 116.34 ft.
(Final) 118.18 ft.
Water Level TOC/Date/Time (Initial) 31.25/9-22-87/1055
(after 24 hrs.) 31.72 / 09-25-87/04:45
Feet of Water in Well 86.2 ft. x 0.653 gallons/foot = 56.3 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 192.6 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 96.3 gallons
Added Water 100 gallons Total Purge Volume 1000 gallons
Casing/Anulus Volume 56.3 gallons Volume Measured By SS GNL DRAW
Surge Technique 2 INCH / LOWER PUMP
Calibration: pH Meter Used: BECKMAN DB 31 SN: 045883
pH 7.00 = 7.02 at 19.3 °C, pH 10.00 = 10.07 at 15.2 °C
Conductance Meter Used: GENS DIGITAL SN: 11341
Standard 1413 umhos/cm at 25°, Reading 1414 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 900	1146	137	9.50	421	clear
Final 1000	1158	138	9.42	415	clear

Remarks: Initial RNA (TOC) = 0.0 ppm Water Level = 31.7/9-23-87/1055
* Final Anulus DIA = 12" 74.5' TO 117.0'
Flow Rate = 10 gpm

* 1 Purge vol. 56.3 gal (casing vol.)
36.6 gal (sand pack vol.)
100.0 gal (added water)
192.6 gallons

Collected by [Signature] 9/23/87 Date
Checked by [Signature] 9/1/88 Date

EP-75

BOREHOLE SUMMARY LOG

Borehole EP-75 Well _____
Project Name and Location T44 MW installation Project Number Task 44
Drilling Company Boyle Driller B. Roach Rig Number Failing 1500
Drilling Method(s) Rotary

Size(s) and type(s) of bit(s) 3 7/8" tri-cone, 11 1/2" auger
Borehole Diameter 11 1/2 in. _____ cm. 0 ft. _____ cm. to 31 ft. _____ cm.
3 7/8 in. _____ cm. 31 ft. _____ cm. to 122 ft. _____ cm.

Sampling Methods Continuous core

Total Number Soil Sampling Tubes _____

Total Number Core Boxes 9

Number of Gallons Lost Drilling Fluid _____

Date/Time Started Drilling 7.24.87 0704

Date/Time Completed Drilling 7.29.87 1124

Total Borehole Depth 122 ft. _____ cm.

Depth to Bedrock 88.9 ft. _____ cm.

Depth to Water 23 ft. _____ cm.

Water Level Determined By? water tape measure

Borehole Completed as Monitoring Well? NO

Date/Time Grouting Completed 7.29.87 0719

Depth of Tremmie Pipe 120

Gallons of Grout 90

Materials Used 9 bags cement, 90 gals. water, 1 bag bentonite

Comments grouted to surface, pulled PVC out of hole

Wellsite Geologist C O Benson Date 7.29.87

Checked for Grout Settlement on 7/30/87 by Steve Pans

Amount of Grout Added none needed

All Measurements from Ground Level

Reviewed by Steve Pans Date 2/19/88

Drill Site Geologist _____ Date _____

Borehole: EP-75A

Well Number: 23223

Depth - feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
1'	1	0.4' - 2.0' $\frac{1.2}{2.0}$	SAME AS TUBE NUMBER	SAME AS TUBE INTERVAL	CL	CLAY, 20% silt, 10 YR 5/4, yellowish brown, stiff, moist, medium plastic
2'					CL	CLAY, 20% silt, 10 YR 5/3, brow, medium stiff, moist, medium plastic, 10% Sand, fine to coarse grained
3'	2	2.0' - 4.0' $\frac{1.4}{2.0}$				
4'						
5'	3	4.0' - 6.0' $\frac{1.0}{2.0}$				
6'						
7'	4	6.0' - 7.0' $\frac{1}{1.0}$			CL	CLAY, 35% Sand, fine to very coarse grained sand 10 YR 8/4, very pale brown, moist, medium stiff, medium plastic, calcareous
8'	5	7.0' - 8.0' $\frac{1.0}{1.0}$				
9'	6	8.0' - 10.0' $\frac{1.35}{2.0}$			SM	Silty Sand, 20% silt, fine to very coarse grained sand, 2.5 Y 6/4, light yellowish brown, moist medium dense, non plastic, medium dense
10'						

Drill Site Geologist: Steve Gans

Date: 7/23/87

Reviewed By: Joseph L. Reel

Date: 9/29/87

Borehole: EP-75A

Well Number: 23223

SOILS LOG					
Depth - feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification Description
11'	7	10.0' - 12.0' $\frac{0.2'}{2.0'}$	SAME AS TUBE NUMBER	SAME AS TUBE INTERVAL	SM Silty Sand, (see pg 1)
12'					
13'	8	12.0' - 14.0' $\frac{1.05'}{2.0'}$			SC Clayey Sand, 12% clay, fine to very coarse grained sand, 10% ^{fine} medium gravel, 2.5Y 6/4 light yellowish brown, moist, v. low plastic, medium dense
14'					
15'	9	14.0' - 16.0' $\frac{1.05'}{2.0'}$			SP Sand, poorly graded, fine to very coarse grained sand, 5% ^{fine} small gravel, 2.5Y 6/4, light yellowish brown, moist, non plastic, medium dense
16'					
17'	10	16.0' - 17.0' $\frac{0.9'}{1.0'}$			GP Poorly graded gravel, 40% sand, medium to v. very coarse grained, 2.5Y 6/4, light yellowish brown moist, non plastic, medium dense
18'	11	17.0' - 18.0' $\frac{0.9'}{1.0'}$			SP Poorly graded sands, fine to very coarse grained sand, 5% small gravel, 2.5Y 6/4, light yellowish brown moist, non plastic, medium dense
19'	12	18.0' - 19.0' $\frac{1.0'}{1.0'}$			SC Clayey sand, 40% clay, fine to medium grained sand, 2.5Y 6/4, light olive brown, ^{der. segment} low plastic
20'	13	19.0' - 20.0' $\frac{0.2'}{1.0'}$			SM Silty sand, 13% silt, fine to medium grained sand, 2.5Y 6/4 light yellowish brown, moist, medium dense, non plastic
					SC Clayey sand, 30% clay, fine to medium grained sand, 2.5Y 5/4 light olive brown, moist, medium ^{SP} dense low plastic

Drill Site Geologist: Steve Gasko
Reviewed By: Joseph L. Ruc

Date: 7/23/87
Date: 9/29/87

Borehole: EP-75A

Well Number: 23223

SOILS LOG					
Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification Description
			SAME AS TUBE NUMBER SAME AS TUBE INTERVAL		
21	14 20.0' - 21.0'	1.0'			SC Clayey sand (see pg 2)
22	15 21.0' - 22.0'	1.0'			SM Silty Sand, 15% silt, fine to coarse grained sand, 2.5Y 5/4, light olive brown, medium dense, moist, non plastic ↓ ↓ ↓
23	16 22.0' - 23.0'	1.0'			
24	17 23.0' - 24.0'	1.0'			
25	18 24.0' - 25.0'	1.0'			SP Poorly Graded Sands, Coarse to very coarse grained sands, 5% small gravels, 2.5Y 6/4, light yellowish, brown, medium dense, saturated, non plastic. ↓ ↓ ↓ gravels increase to 10% and size increase to small to medium gravel
26	19 25.0' - 26.0'	1.0'			
27	20 26.0' - 27.0'	1.0'			
28	21 27.0' - 28.0'	1.0'			
29	22 28.0' - 29.0'	1.0'			GP Poorly graded gravels, 30% sand, coarse to v. coarse grained, small to med size gravel, 10YR 6/4, light yellowish, brow, medium dense, saturated, non plastic
30	23 29.0' - 30.0'	1.0'			29.8' Claystone Bedrock, 5Y 5/3, Olive, very stiff moist, medium plastic, weathered, blocky

Drill Site Geologist: Steve Paris

Date: 7/23/87

Reviewed By: Joseph L. Ried

Date: 9/27/87

Borehole: EP-75AWell Number: 23223

Depth - Feet	Tube Number Tube Interval	Recovery	Sample Number	Sample Interval	Unified Soil Classification	SOILS LOG Description
31	20 31.0'-31.0'	0% 0.0'	SAME AS tube number	SAME AS tube interval		CLAYSTONE Bedrock (see pg 3)
32	21 31.0'-32.0'	10% 1.0'				TOTAL DEPTH 32.0'

Drill Site Geologist: Steve PappDate: 7/23/87Reviewed By: Joseph L. ReedDate: 9/29/87

ESE, Inc. BORE EP-75 WELL(S)

BOX NO.	DEPTH Feet	Recon. Int.	Weather U S	Structure/ Bedding		Hard- ness	Perm.			Mineralogy	Color		Texture/ Grain Size dist. ad gr mm of 1.0 100	Lith. Char.	Lith. Class	Description/Comments	
				Angle	Desc.		1°	2°			M	G				FI	CM (Scale 1" = 2 ft)
					MASIVE												
	52									CON 20%							
	54	5/6															
	56									CON 5%				10% clay	SS	Silty SANDSTONE	
	58	4.5/5								CON 25%				5% silt	CL	CLAYSTONE	
	60									CON 10%							
	62																
	64	4.5/5.0								CON 5%				15% silt			
	66				MASSIVE HEAVY FRACTURED									10% silt	SS	Silty SANDSTONE	
	68														CL	CLAYSTONE	
	70	4.0/4.0			INT. BAD									15% clay	SS	SANDSTONE	
	72																
	74									CON 15%					CL	CLAYSTONE	
	76				INT. BAD MASSIVE												

BOX NO.	DEPTH	Reg. Int.	Mudst.	Structure / Bedding		Hard-ness	Perm.		Mineralogy		Color		Texture / Grain Size	Lith. Char.	Lith. Class	Description / Comments
				Angle	Desc.		1°	2°	Min.	Habit	M	G	clst sd gr mm			
						S	H	L	H	L			.01 to 100		Fi	CM (Scale 1" = <u>2</u> ft)
	72				INTENSIVELY FRACTURED										CL	CLAYSTONE
	74				MASSIVE											
	76															
	78				INT. BED											
	80				MASSIVE											
	82															
	84															
	86															
	88															

BOX No.	DEPTH Feet	Dip Incl.	Width U S	Structure/ Bedding		Hard- ness	Perm.		Mineralogy		Color		Texture/ Grain Size dist. of gr. mm	Lith. Char.	Lith. Class	Description/Comments
				Angle	Desc.		1°	2°	Min.	Habit	M	G				
	92	1/2 E.O.			MASSIVE						10yr 3/1 VERY DARK GRAY			10% sil	SS	SANDSTONE
	94	5/8														
	96				INT 000				CON 5%					20% clay	SS	SANDSTONE CLAYSTONE INTERBANDS
	98	3/4														
	100				MASSIVE INTRACRYST. SPHINX				XLG CALC.						CL	CLAYSTONE CRYSTALLINE VEINS OF CALCITE 99' to 101'
	102				MASSIVE						5yr 3/1 DARK OLIVE GRAY					
	104	5/5														
	106															
	108				INT 000						10yr 3/1 VERY DARK GRAY			10% sil	SS	SILTY SANDSTONE
	110				MASSIVE									10% sil		

[illegible]



Frontier Logging
Lakewood, Colorado

Company **ESE**

Site No. **EP-75**

Area/Project **RMA**

County **ADAMS COUNTY**

State **COLORADO**

Ground Level

Ground Level

Date **JULY 27, 1987**

Driller Depth **122 Ft**

Bit Size **3 7/8"**

Casing Depth **31 Ft**

Time In **1135**

Time Out **1205**

Fluid in Hole **Water**

Unit No. **110**

Operator **Wm. Linton**

Location **Lakewood**

ESTIMATE DATA

T.D. Logged **121 Ft**

Natural Gamma

Scale **200 Scale**

Time Constant **2**

Cable Source No. Value

Probe No. **103-1041**

Probe Type **xtal 3/4 x 1 1/4"**

Water Factor **1.60 x 10⁻⁵**

Casing Factor **1.10**

Resistance **60 ohms/5"**

S.P. **10 MV/Inch**

NATURAL GAMMA

20 cps

S.P.

10 MV

RESISTANCE

50

OHMS/5 inches

NATURAL GAMMA

20 cps

Initial Log

S.P.

10 mv

RESISTANCE

50

OHMS/ 5 inches

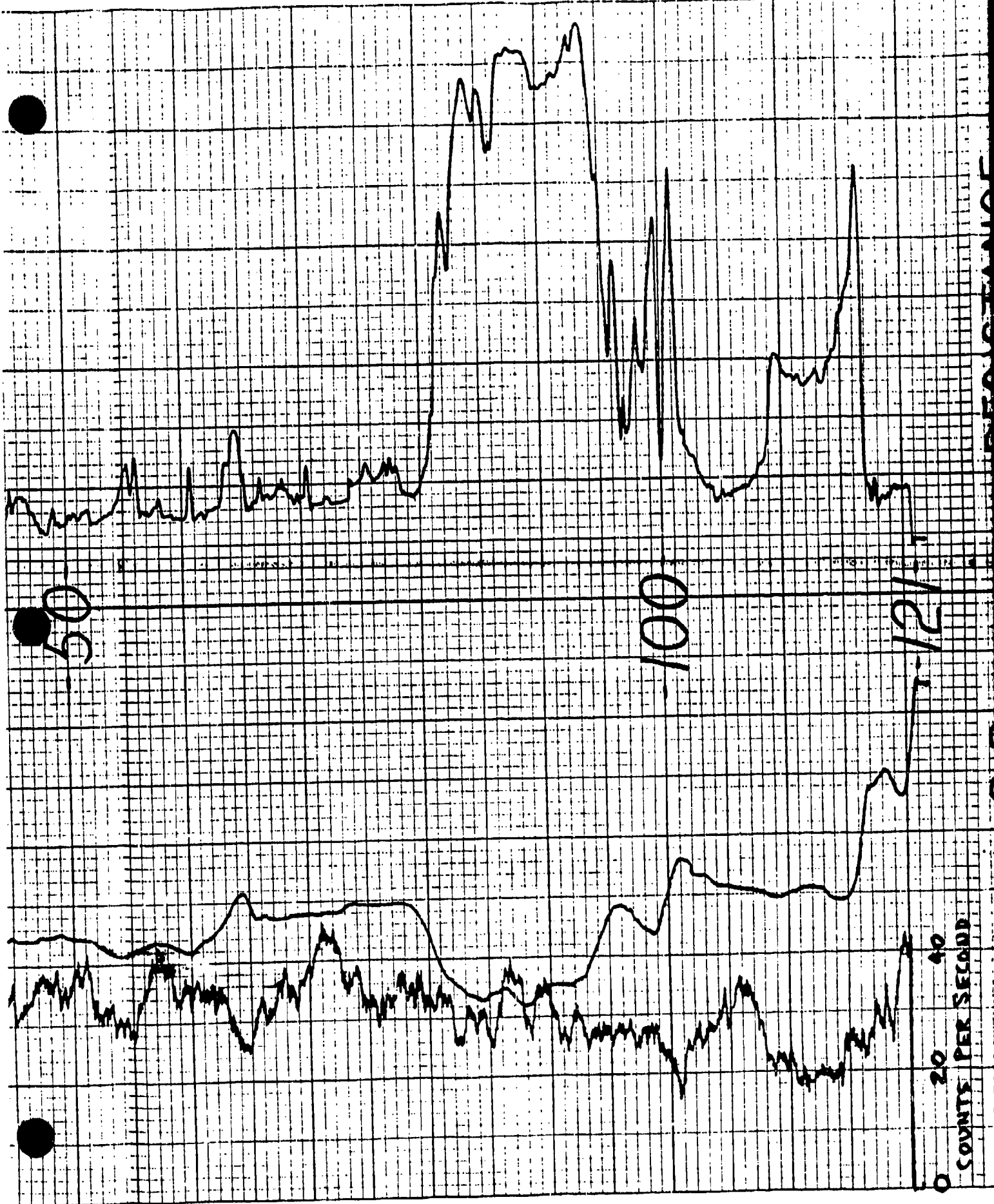
COUNTS PER SECOND

20

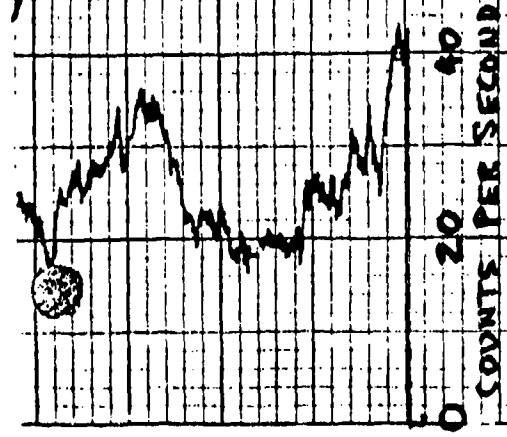
40

CASING

50



100



NATURAL
GAMMA

S.P.

10 MV/INCH

121



RESISTANCE

50 OHMS/5 INCHES

EP-75

WELL CONSTRUCTION SUMMARY

Borehole EP-75A Well 23223
Project Name and Location Task 36^{SP} 44 Section 23 Project Number 819370210
Drilling Company Bayles Bros Driller Don Irvine Rig Number IR
Drilling Method(s) Hollow stem auger 3 1/4" ID 5 1/2" O.D. Continuous Staging
Reamed with 8 1/4" ID 12 1/4" O.D. Hollow Stem Auger
Borehole Diameter 12 1/4 in. 0 ft. 32.0 ft.
in. cm. ft. cm. to ft. cm.

Size(s) and types of Bit(s) Hollow Stem Auger 12 1/4" Sampling Method(s) continuous hollow stem Auger

Size and Type PVC 4" Sch 40 0.20" slot
Total Borehole Depth 32.0 ft. cm.
Depth to Bedrock 29.8 ft. cm.
Depth to Water 22.7 ft. cm.
Water Level Determined By sounding + sample
Length Plain PVC (total) 17.06 ft. cm.
Length of Screen 16.21 ft. cm.
Total Length of Well Casing 33.27 ft. cm.
PVC Stick Up 1.70 ft. cm.
Depth to Bottom of Screen 31.57 ft. cm.
Depth to Top of Screen 15.36 ft. cm.
Depth to Top of Sand 11.0 ft. cm.
Depth to Top of Bentonite 6.0 ft. cm.

Date/Time Start Drilling 7/13/87 0726
Date/Time Finish Drilling 7/16/87 1028
Date/Time Start Completion 7/17/87 0633
Date/Time Cement Protective Casing 7/17/87 0915
Materials Used 3 concrete bags, 20' of 2" tubes
Plain PVC 1-10', 2-5' section
Slotted PVC 1-10', 1-5' section
Bentonite Pellets 4 1/2 buckets
Bentonite Granular 1.5^{SP} 20 bag
Cement 3 bags
Sand 11 bags
Water added during completion 0
Water added during drilling 20 gal
Total Gallons of water added 20 gal

Drill Site Geologist Steve Paris

Date 7/17/87

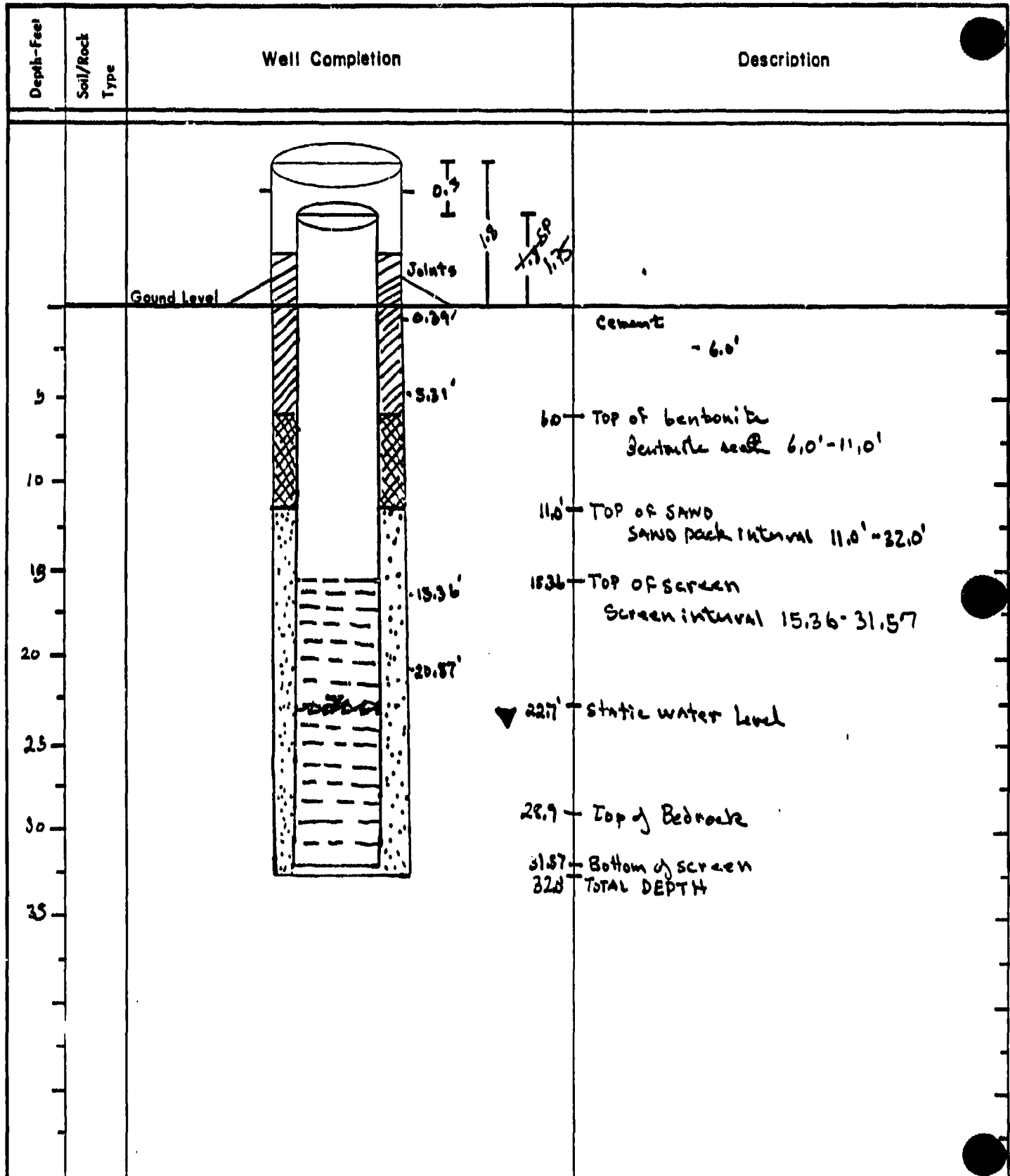
Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 7/23/87 1100 7/23/87 1100 7/23/87 1100
Date/Time/Personnel Casing Painted 7/23/87 1100
Date/Time/Personnel Numbers Painted 7/23/87 1100
Materials Used 15 80^{lb} bags of concrete mix

Top of Protective Casing to Top of PVC	<u>0.3</u> ft. cm.	COMMENT/NOTES
Top of Protective Casing to Weep Hole	<u>1.1</u> ft. cm.	
Top of Protective Casing to Internal Mortar	<u>1.24</u> ft. cm.	
Top of Protective Casing to Top of Cement Pad	<u>1.75</u> ft. cm.	
Top of Protective Casing to Ground Level	<u>1.80</u> ft. cm.	

Reviewed By [Signature] Date 7.5.88
Drill Site Geologist Steve Paris Date 7/16/87

Borehole: EP-75A

Well: 23223



Drill Site Geologist: Steve Paris
Reviewed By: C. D.

Date: 7/17/87
Date: 5.8.88

WELL DEVELOPMENT DATA

Bore EP-75A Well 23223

Project RMA ON-POST Project Number Task #44

Date(s) Developed 8/4/87 Date Installed 7/17/87

Personnel (Name/Company) DW/ESE Well Diameter (I.D.) 4 in.

JEP/HLA Annulus Diameter 2 1/4 in. 0 ft. to 2 ft.

Rig Used ESE WASH SERVICE Trench Screen Interval 15.86 ft. to 31.57 ft.

Pump (Type/Capacity) GRUNDFOS / 7 GPM Casing Height (Above G.L.) 1.8 ft.

Bailer (Type/Capacity) N/A Bottom of Screen (Below G.L.) 31.57 ft.

Water Source RMA

Measured Well Depth TOC (Initial) 33.2 ft.

(Final) 32.93 ft.

Water Level TOC/Date/Time (Initial) 24.2 / 8-4-87 / 1100

(after 24 hrs.) 24.27 / 8-17-87 / 1320

Feet of Water in Well 9.0 ft. x 2.72 gallons/foot = 24.08 gallons casing/annulus volume

Drilling Fluid Lost N/A gallons * One Purge Volume 40.88 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 204.4 gallons

Added Water 20 gallons Total Purge Volume 375 gallons

Casing/Annulus Volume 20.88 gallons Volume Measured By 5 GALLON BUCKET / TARE

Surge Technique RAISE & LOWER PUMP

Calibration: pH Meter Used: TECHMAN 021 SN: 015867

pH 7.00 = 7.01 at 20.6 °C. pH 10.00 = 10.06 at 20.1 °C

Conductance Meter Used: CMS DIGITAL SN: 14243

Standard 1000 umhos/cm at 25°, Reading 1001 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 0	1128	22.4	7.35	3560	medium brown, v. silty, some sand.
40	1200	14.6	6.79	7730	cloudy w/ brown silt & sand. Ann. formation sand.
80	1243	15.3	6.74	7610	partly cloudy w/ brown silt & some fine sand.
120	1328	15.6	6.72	7520	mostly clear, some brown silt.
160	1409	15.8	6.76	7520	cloudy w/ lb brown silt.
Final 215	1506	16.2	6.76	7450	mostly clear - some greenish brown silt.

Remarks: Initial flow & wellhead = 0.8 gpm.

Flow rate = 0.92 gpm. / 0.88 gpm

1 Purge Vol = 20.88 casing/annulus vol.
+ 20.8 water added.
40.88 gallons

Collected by

Checked by

Signature

Signature

8/4/87

Date

S.E. 83

Date

WELL DEVELOPMENT DATA

Project RMA ON-POST Bore EP-75A Well 23223
Date(s) Developed 8/11/87 Project Number TASK #44
Personnel (Name/Company) DLG/ESE Date Installed 7/17/87
PJT/ESE Well Diameter (I.D.) 4 in.
Rig Used ESE WEL CRANE TRUCK Anulus Diameter 12 1/2 in. 0 ft. to 32 ft.
Pump (Type/Capacity) GROUND PUMP / 7 GPM Screen Interval 15.36 ft. to 31.57 ft.
Bailor (Type/Capacity) N/A Casing Height (Above G.L.) 1.8 ft.
Water Source RMA Bottom of Screen (Below G.L.) 31.57 ft.
Measured Well Depth TOC (Initial) 33.2 ft.
(Final) 32.93 ft.
Water Level TOC/Date/Time (Initial) 24.2 / 8-4-87/1100
(after 24 hrs.) 24.27 / 8-17-87/1320
Feet of Water in Well 9.0 ft. x 2.32 gallons/foot = 20.88 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 40.88 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 204.4 gallons
Added Water 20 gallons Total Purge Volume 375 gallons
Casing/Anulus Volume 20.88 gallons Volume Measured By 5 GALLON BUCKET
Surge Technique RAISE / LOWER PUMP
Calibration: pH Meter Used: BECKMAN 021 SN: 015383
pH 7.00 = 7.00 at 23.7 °C, pH 10.00 = 10.03 at 23.4 °C
Conductance Meter Used: CMS DIGITAL SN: 11341
Standard 1000 umhos/cm at 25°, Reading 1001 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
215	1004	16.5	6.85	7460	cloudy w/ brown silt & black/brown fm. sand.
255	1028	14.6	6.74	7720	mostly clear - some fine brown silt
295	11:00	15.5	6.69	7690	mostly clear
335	11:40	15.3	6.67	7750	some silt
375	1213	16.0	6.67	7650	mostly clear some very fine brown fm. sand.
Final					clear

Remarks: Initial H₂O wellhead = 0.0 ppm

1 Purge vol. = 20.88 casing/anulus vol.
+ 20.00 added water
40.88 gallons

Collected by

Checked by

Signature

Signature

Date

Date

3/11/87

3.8.88

DW

WELL CONSTRUCTION SUMMARY

Borehole EP-75D1 Well 23224
Project Name and Location RMA Section 23 Project Number Task 44
Drilling Company Bojars Bros Driller Dan Irvine Rig Number 2A
Drilling Method(s) rotary

Borehole Diameter 12 1/2" in. 0 ft. 32.0' ft. 95.0' ft.
7 7/8" in. 32.0' ft. 95.0' ft.

Size(s) and types of Bit(s) 12 1/2" blade
7 7/8" bit

Size and Type PVC 4" sched 40

Total Borehole Depth 95.0 ft. cm.

Depth to Bedrock 29.0 ft. cm.

Depth to Water — ft. cm.

Water Level Determined By gall

Length Plain PVC (total) 2005 ft. cm.

Length of Screen 16.23 ft. cm.

Total Length of Well Casing 96.34 ft. cm.

PVC Stick Up 1.54 ft. cm.

Depth to Bottom of Screen 94.80 ft. cm.

Depth to Top of Screen 78.57 ft. cm.

Depth to Top of Sand 77.2 ft. cm.

Depth to Top of Bentonite 72.0 ft. cm.

Sampling Method(s) N/A

Date/Time Start Drilling 7/27/87 0915

Date/Time Finish Drilling 8/6/87 1445

Date/Time Start Completion 8/6/87 1445

Date/Time Cement Protective Casing 7/28/87 0830

Materials Used 97' of 8 1/2" OD. steel casing

Plain PVC 8-10' section, 1 cut off section

Slotted PVC 1-5' section, 1-10' section

Bentonite Pellets 1 2/3 buckets

Bentonite Granular 90 lbs

Cement 28 bags

Sand 3 bags

Water added during completion 0

Water added during drilling 30 gal

Total Gallons of water added 30 gal

Drill Site Geologist Steve Gass

Date 8/10/87

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 8/10/87/0830/DW, JAL

Date/Time/Personnel Casing Painted 8/10/87/1530/DW

Date/Time/Personnel Numbers Painted 8/20/87/0926/DW, CMH

Materials Used 20 BAGS OF QUIKRETE

Top of Protective Casing to Top of PVC 0.50' ft. cm.

Top of Protective Casing to Weep Hole 1.50' ft. cm.

Top of Protective Casing to Internal Mortar 1.60' ft. cm.

Top of Protective Casing to Top of Cement Pad 2.07' ft. cm.

Top of Protective Casing to Ground Level 2.27' ft. cm.

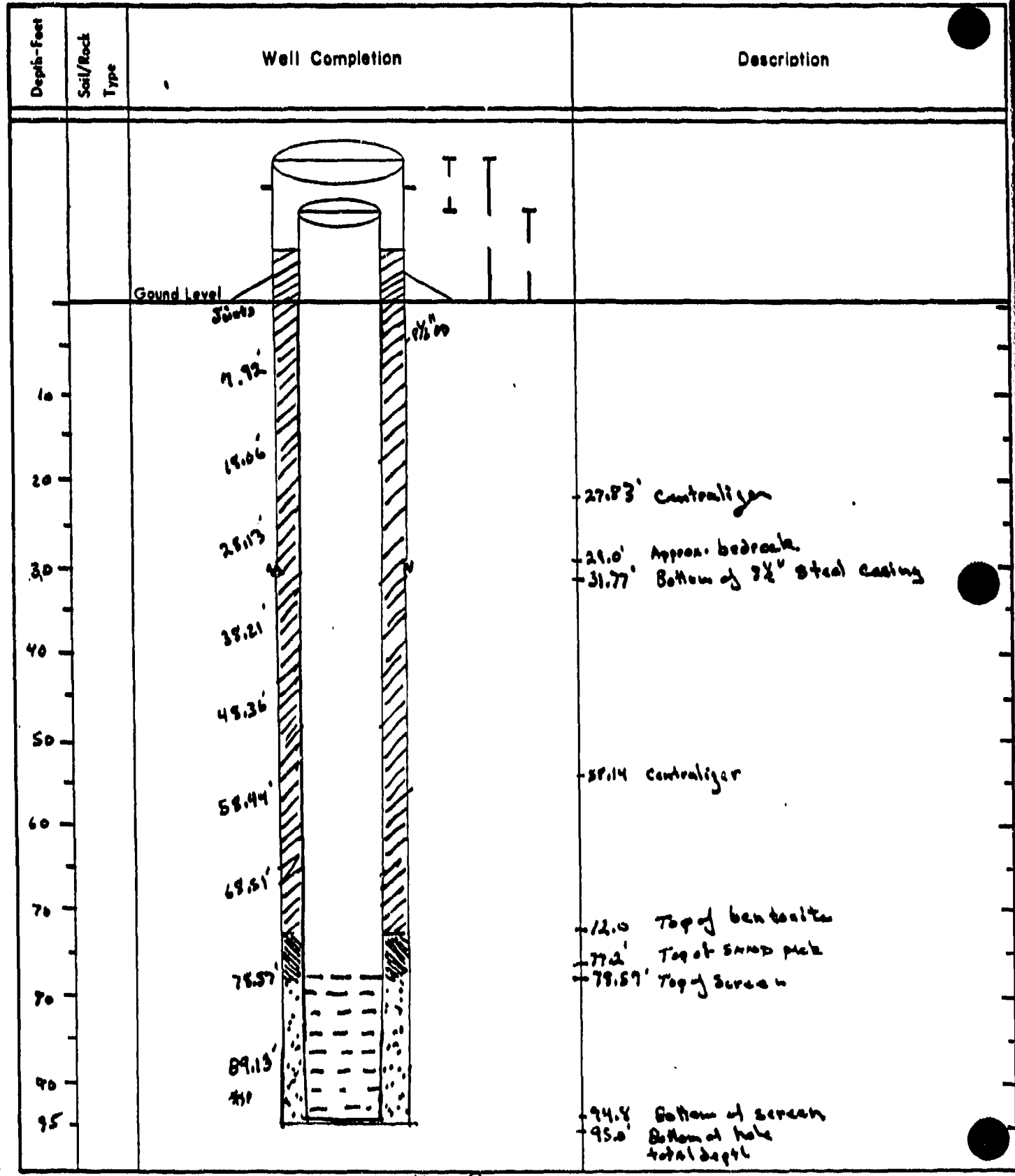
COMMENT/NOTES

Reviewed By _____ Date _____

Drill Site Geologist _____ Date _____

Borehole: EP-75D1

Well: _____



Drill Site Geologist: John Pave
Reviewed By: _____

Date: 8/10/97
Date: _____

WELL DEVELOPMENT DATA

Project RMA on-post Bore EP-75 D1 Well 23224
Date(s) Developed 8-21-87 Project Number T-44 87937
Personnel (Name/Company) DLW/ESE Date Installed 8-6-87
SMH/ESE Well Diameter (I.D.) 4 in.
Rig Used ESE SERVICE TRUCK Anulus Diameter 12 1/2 in. 0 ft. to 32 ft.
Pump (Type/Capacity) GRUNDEOS - 7 gal/min 7 7/8 in. 32 ft. to 95 ft.
Bailer (Type/Capacity) N/A Screen Interval 78.67 ft. to 94.2 ft.
Water Source RMA Casing Height (Above G.L.) 2.1 ft.
Measured Well Depth TOC (Initial) 95.86 ft. Bottom of Screen (Below G.L.) 94.80 ft.
(Final) 96.25 ft.
Water Level TOC/Date/Time (Initial) 24.20 / 8-21-87 / 0802 / SMH
(after 24 hrs.) 28.54 / 09-01-87 / 1140
Feet of Water in Well 71.36 ft. x 0.653 gallons/foot = 46.60 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 92.24 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 46.20 gallons
Added Water 30 gallons Total Purge Volume 700 gallons
Casing/Anulus Volume 46.60 gallons Volume Measured By 50 gal. Bason
Surge Technique RAISING & LOWERING PUMP
Calibration: pH Meter Used: BOCKMAN 071 SN: 015883
pH 7.00 = 7.01 at 23.0 °C. pH 10.00 = 10.03 at 23.0 °C
Conductance Meter Used: CH3 DIMITAL SN: 11341
Standard 1000 umhos/cm at 25°, Reading 998 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 0.0	0840	15.1	10.52	212	very cloudy, gray silt, some sand, and
92.0	0935	17.4	9.85	731	cloudy, gray silt
184.0	1139	18.4	9.14	949	Slightly cloudy
Final					

Remarks: Initial HND: 0.0 (TOC) Flow rate = 1.37 gpm / 0.9 gpm

ONE Purge vol: 46.60
sandpack vol: + 15.64
62.24 gal
added H₂O: + 30.00 gal
92.24

Collected by [Signature] Date 8/24/87
Checked by [Signature] Date 3.8.88
sandpack vol: 95.86
- 72.20
18.26 x 0.862 = 15.64

WELL DEVELOPMENT DATA

Project RMH ON-POST Bore EP-7501 Well 23224
 Date(s) Developed 8/24/87 Project Number TASK 44 87937
 Personnel (Name/Company) DLW/ESE Date Installed 8-6-87
LWL/ESE Well Diameter (I.D.) 4 in.
 Anulus Diameter 12 1/2 in. 0 ft. to 32 ft.
7 1/2 in. 12 ft. to 95 ft.
 Rig Used ESE WEL SERVING TRUCK Screen Interval 78.57 ft. to 94.8 ft.
 Pump (Type/Capacity) GRUNDOS / 7 GPM — ft. to — ft.
 Baller (Type/Capacity) N/A Casing Height (Above G.L.) 2.1 ft.
 Water Source RMH Bottom of Screen (Below G.L.) 94.80 ft.
 Measured Well Depth TOC (Initial) 95.56 ft.
 (Final) 96.25 ft.
 Water Level TOC/Date/Time (Initial) 24.20 / 8-24-87 / 0802
 (after 24 hrs.) 21.54 / 09-01-87 / 1140
 Feet of Water in Well 74.36 ft. x 0.653 gallons/foot = 46.60 gallons casing/anulus volume
 Drilling Fluid Lost N/A gallons One Purge Volume 92.24 gallons
 Purge Water Lost N/A gallons Minimum Purge Volume 46.20 gallons
 Added Water 30 gallons Total Purge Volume 700 gallons
 Casing/Anulus Volume 46.60 gallons Volume Measured By SS GIL ZIMMER
 Surge Technique RAISE / LOWER PUMP
 Calibration: pH Meter Used: DELTAHID 21 SN: 015803
 pH 7.00 = 7.02 at 17.6 °C, pH 10.00 = 10.09 at 17.6 °C
 Conductance Meter Used: CMS DIGITAL SN: 43411
 Standard 1000 umhos/cm at 25°, Reading 1000 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
184	0928	14.1	9.70	933	very cloudy w/ black fm. sand and grey silt.
276	1040	14.3	9.54	967	cloudy w/ grey silt
368	1229	15.6	9.32	980	partly cloudy w/ some brown-grey silt.
460	1511	16.6	8.81	974	cloudy w/ grey/brown silt
Final					

Remarks: Initial NWA @ TOC = 0.2 ppm. Water level = 24.59 / 8-24-87 / 0909
 Flow rate = 1.5 gpm (initial) / 1.37 gpm pH meter recalibrated after break: pH 7.00 = 7.02
 ONE PURGE VOL: = 46.60 casing vol. + 15.64 Sand/gravel vol. + 30.00 added water = 92.24 gallons
 Collected by [Signature] Signature [Signature] Date 8/24/87
 Checked by [Signature] Signature [Signature] Date 3-8-88

WELL DEVELOPMENT DATA

Bore EP-75D1 Well 232241

Project RMA ON-POST Project Number TASK 44 P7937

Date(s) Developed 8/25/87 Date Installed 8-6-87

Personnel (Name/Company) DLW/ESE Well Diameter (I.D.) 4 in.

JFO/HLA Anulus Diameter 12 1/2 in. 0 ft. to 34 ft.

Rig Used ESE WITH SERVICE TRUCK Screen Interval 72 1/2 in. 32 ft. to 95 ft.

Pump (Type/Capacity) GRUNDIGS / 70 GPM Casing Height (Above G.L.) 2.1 ft.

Hallur (Type/Capacity) N/A Bottom of Screen (Below G.L.) 94.80 ft.

Water Source RMA

Measured Well Depth TOC (Initial) 95.56 ft.

(Final) 96.25 ft.

Water Level TOC/Date/Time (Initial) 24.20 / 08-21-87/0802

(after 24 hrs.) 28.54 / 09-01-87/1140

Feet of Water in Well 71.26 ft. x 0.653 gallons/foot = 46.60 gallons casing/anulus volume

Drilling Fluid Lost N/A gallons One Purge Volume 92.24 gallons

Purge Water Lost N/A gallons Minimum Purge Volume 461.20 gallons

Added Water 30 gallons Total Purge Volume 700 gallons

Casing/Anulus Volume 46.60 gallons Volume Measured By 55 GALLON DRUMS

Surge Technique RAISE/LOWER PUMP

Calibration: pH Meter Used: BECKMAN 621 SN: 015088

pH 7.00 = 7.02 at 18.1 °C, pH 10.00 = 10.09 at 18.0 °C

Conductance Meter Used: CMS DIGITAL SN: 11741

Standard 1000 umhos/cm at 25°, Reading 999 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial 460	0916	14.1	9.11	1004	cloudy w/ gray silt & some black/brown formation sand
552	1004	15.3	9.11	1004	cloudy w/ some gray-brown silt.
644	1317	15.5	9.21	1003	cloudy w/ gray silt & some black/brown formation sand
700	1411	16.9	9.05	990	slightly cloudy w/ gray-brown silt.
Final					DLW

Remarks: Initial H₂O (TOC) = 0.2 ppm. Water level = 26.6 / 08-25-87/0912

Recalibration after lunch: pH 7.00 = 7.01 @ 27.7 °C pH 10.00 = 10.05 @ 24.5 °C

Cond. reading = 999 umhos @ 25 °C

Purge vol = 46.60 casing vol.
+ 15.64 sand/pump vol.
30.0 added H₂O
92.24 gallons

Collected by [Signature] Date 08/25/87

Checked by [Signature] Date 5.8.88

WELL CONSTRUCTION SUMMARY

Borehole EP-75D2 Well 23225
Project Name and Location PMA Section 23 Project Number Task 44
Drilling Company Boyle Bros Driller Don Irvine Rig Number TR
Drilling Method(s) rotary

Borehole Diameter 1 1/2 in. 0 ft. 32.0 ft. 117 1/8 in. 32.0 ft. 97.0 ft. 7 7/8 in. 97.0 ft. 117.0 ft.

Size(s) and types of Bit(s) 1 1/2" Blade
1 7/8 blade 7 7/8" bit

Sampling Method(s) N/A

Size and Type PVC 4" sch 40

Date/Time Start Drilling 7/29/87 0747

Total Borehole Depth 117.0 ft. cm.

Date/Time Finish Drilling 8/5/87 1105

Depth to Bedrock 29.8 ft. cm.

Date/Time Start Completion 8/5/87 1225

Depth to Water - ft. cm.

Date/Time Cement Protective Casing

Water Level Determined By

Materials Used 22' of 12 1/2" steel casing, 98' of 4 1/2" steel

Length Plain PVC (total) 109.4 ft. cm.

Plain PVC 10-10' 1 cut off

Length of Screen 10.86 ft. cm.

Slotted PVC 1-10'

Total Length of Well Casing 120.0 ft. cm.

Bentonite Pellets 1 3/4 bushel

PVC Stick Up 47 ft. cm.

Bentonite Granular 3 1/2 bags

Depth to Bottom of Screen 113.28 ft. cm.

Cement 56 bags

Depth to Top of Screen 104.42 ft. cm.

Sand 2 1/2 bags

Depth to Top of Sand 10.2 ft. cm.

Water added during completion 0

Depth to Top of Bentonite 15.7 ft. cm.

Water added during drilling 0

Total Gallons of water added 0

Drill Site Geologist Steve Pank

Date 8/10/87

Date/Time/Personnel Internal Mortar, Cement Pad, and Weep Hole Installed 8-14-87/1100/DLW

Date/Time/Personnel Casing Painted 8-18-87/1538/DLW

Date/Time/Personnel Numbers Painted 8-20-87/0936/DLW & SMH

Materials Used 20 BAGS QUIKRETE

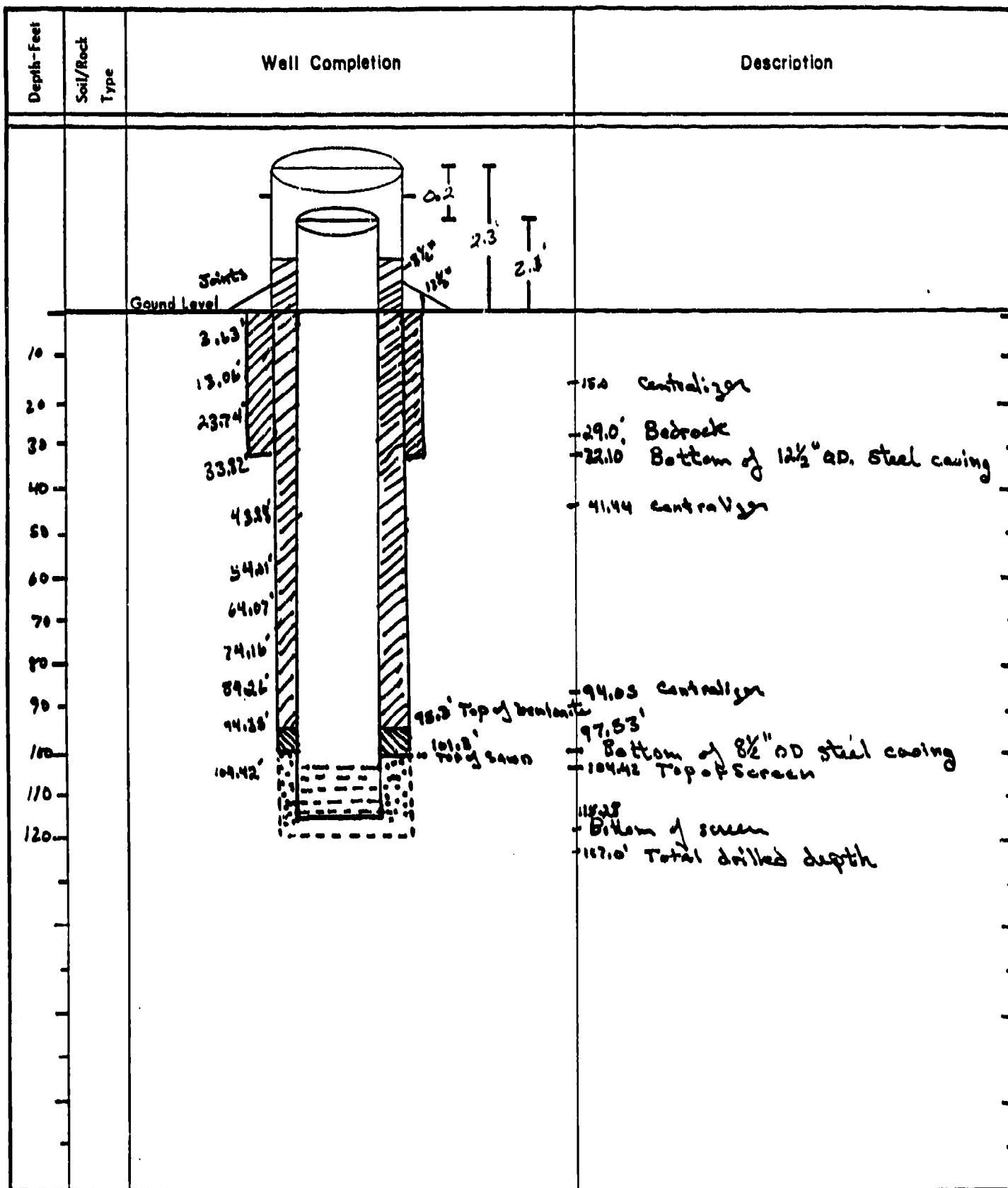
		COMMENT/NOTES
Top of Protective Casing to Top of PVC	<u>0.20</u> ft. <u>cm.</u>	
Top of Protective Casing to Weep Hole	<u>1.60</u> ft. <u>cm.</u>	
Top of Protective Casing to Internal Mortar	<u>1.70</u> ft. <u>cm.</u>	
Top of Protective Casing to Top of Cement Pad	<u>2.15</u> ft. <u>cm.</u>	
Top of Protective Casing to Ground Level	<u>2.30</u> ft. <u>cm.</u>	

Reviewed By Steve Pank Date 2/16/88

Drill Site Geologist Steve Pank Date 2/16/88

Borehole: EP-75 D2

Well: 23225



Drill Site Geologist: Steve Pans
Reviewed By: _____

Date: 8/4/87
Date: _____

WELL DEVELOPMENT DATA

Project RMA ON-POST Bore F1-75 D2 Well 23225
Date(s) Developed 9/1/87 Project Number MAC 44
Personnel (Name/Company) DLW / ESE Date Installed 8/5/87
PJB / ESE Well Diameter (I.D.) 4 in.
Rig Used ESE WORK SERVICE TRUCK Annulus Diameter 16 1/2 in. 0 ft. to 34 ft.
Pump (Type/Capacity) GRINDERS / 70 GPM 11 3/4 in. 72 ft. to 97 ft.
Bailer (Type/Capacity) N/A Screen Interval 104.42 ft. to 115.28 ft.
Water Source 24A Casing Height (Above G.L.) 2.35 ft.
Measured Well Depth TOC (Initial) 113.15 ft. Bottom of Screen (Below G.L.) 115.28 ft.
(Final) 116.91 ft.
Water Level TOC/Date/Time (Initial) 25.22 / 9-1-87 / 7:43
(after 24 hrs.) 25.26 / 9-2-87 / 08:31
Feet of Water in Well 87.93 ft. x 0.653 gallons/foot = 57.42 gallons casing/annulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 69.33 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 346.65 gallons
Added Water 0 gallons Total Purge Volume 350 gallons
Casing/Annulus Volume 57.42 gallons Volume Measured By 5.5 GAL. DRUM
Surge Technique RAISE/LOWER PUMP
Calibration: pH Meter Used: 26000000 0.2 SN: 015883
pH 7.00 = 7.01 at 21.5 °C, pH 10.00 = 10.05 at 21.5 °C
Conductance Meter Used: CMS DIGITAL SN: 11341
Standard 1413 umhos/cm at 25°, Reading 1413 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
0	0754	14.6	12.31	3310	very cloudy w/ dissolved gray bentonite/grout; white sand
70	0905	17.3	11.95	1860	cloudy w/ black sand specs
140	1135	19.3	11.48	1615	cloudy w/ lt. gray dissolved bentonite/silt
210	1511	19.5	11.29	1519	cloudy w/ lt. gray silt.
Final					

Initial
Remarks: HNH (TOC) = 0.0 ppm Flow Rate 0.5 GPM 0.91 gal (casing vol.)
* Final annulus dia = 75 97.0' to 117.0' 11.91 gal (sand pack vol.)
HNH (TOC) 1st Vol 0.25 0.91 gal

Sand pack = 115.28 ft. of Screen
- 102.70 Top of Sand
13.98

Collected by [Signature] 9/1/87 Date
Checked by [Signature] 222.85 Date

Sand pack vol. = 13.98 ft. x 0.652 gal/ft. = 11.91 gallons.

Recalibration: after lunch pH 7.00 = 6.99 @ 26.9 pH 10.00 = 10.00 @ 26.9

WELL DEVELOPMENT DATA

Project RMA ON-POST Bore EP-75D2 Well 23225
Date(s) Developed 9/2/87 Project Number TASK 44
Personnel (Name/Company) DLW/ESE Date Installed 5/5/87
DJG/ESE Well Diameter (I.D.) 4 in.
Rig Used ESE WELL SERVICE TRUCK Anulus Diameter 16 1/2 in. 0 ft. to 32 ft.
Pump (Type/Capacity) GARDNER / 700M 11 3/4 in. 32 ft. to 97 ft.
Bailer (Type/Capacity) N/A Screen Interval 104 1/2 ft. to 115.34 ft.
Water Source RMA 2 ft. to — ft.
Measured Well Depth TOC (Initial) 112.15 ft. Casing Height (Above G.L.) 2.35 ft.
(Final) 116.91 ft. Bottom of Screen (Below G.L.) 115.28 ft.
Water Level TOC/Date/Time (Initial) 25.22 / 9-1-87 / 733
(after 24 hrs.) 25.26 / 9-2-87 / 0831
Feet of Water in Well 27.93 ft. x 0.653 gallons/foot = 57.42 gallons casing/anulus volume
Drilling Fluid Lost N/A gallons One Purge Volume 69.33 gallons
Purge Water Lost N/A gallons Minimum Purge Volume 346.65 gallons
Added Water 0 gallons Total Purge Volume 850 gallons
Casing/Anulus Volume 57.42 gallons Volume Measur'd By 55 GALLON DRUM
Surge Technique RARE / LOWER PUMP
Calibration: pH Meter Used: BRIDGMAN #21 SN: 015002
pH 7.00 = 7.00 at 24.5 °C, pH 10.00 = 10.01 at 25.0 °C
Conductance Meter Used: CMS DIGITAL SN: 11341
Standard 1413 umhos/cm at 25°, Reading 1414 umhos/cm at 25 °C

Purge Volume	Time	Temp. °C	pH	Conductance at 25°C	Physical Characteristics (clarity, odor, sand content, color)
Initial					
<u>210</u>	<u>1146</u>	<u>15.3</u>	<u>11.14</u>	<u>1496</u>	<u>slightly cloudy w/ fine sand; black & white</u>
<u>280</u>	<u>1256</u>	<u>19.9</u>	<u>10.41</u>	<u>1348</u>	<u>slightly cloudy, some silt</u>
<u>350</u>	<u>1504</u>	<u>20.3</u>	<u>10.10</u>	<u>1372</u>	<u>clear</u>
Final					

Remarks: Initial HMM(TOC) = 0.0 ppm ; Water level = 26.93

* Final anulus = 7 1/2' 97.0' TO 117.0'

Sanitary vol. = $13.98 \text{ ft} \times 0.852 \text{ gal/ft} = 11.91 \text{ gal.}$
1 Purge vol. = $57.42 \text{ (casing vol.)} + 11.91 \text{ (Sanitary vol.)}$
69.33 gallons.

Collected by [Signature] 9/2/87 Date
Checked by [Signature] 2.22.88 Date

**APPENDIX C.3: WATER CHEMISTRY DATA FOR TASK 44, 1ST, 2ND
AND 4TH QUARTER, FY87**

ONPOST WATER CHEMISTRY DATA

APPENDIX D
CHEMISTRY DATA

APPENDIX D.1: 3RD QUARTER FY87 CHEMISTRY DATA

WRIR WATER CHEMISTRY SUMMARY 3RD QUARTER FY1987

EXPLANATION

The following information pertains to tables presented in this section of the WRIR:

- Concentrations are in u/l.
- Analysis were not conducted for analytes concentrations designated by " . " .
- Bedrock lithology for wells 23218, 23219, 24191, 37369, 37370, 37371, 37372, 37376, 37387, 37388, 37389, and 3730 can be found in the forthcoming Task 36 Report.
- Bedrock lithology for wells 37367, 37368, 37373, 37374, 37377, 37378, 37379, 37380, 37381, 37383, 37391 and 37392 can be found in the forthcoming Task 39 Report.
- For all other wells, bedrock depths are zero and/or bedrock lithologies are not listed when:
 - Survey data were unavailable
 - Tenuous bedrock picks from lithologic logs
 - Borehole did not penetrate bedrock
 - Well data were acquired from sources where this information was unavailable.
- Screened intervals were unavailable for wells listed with a "0" screened interval designation.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 01007 AQUIFER: DENVER
 SCREENED INT.: 23.0- 26.4
 BEDROCK DEPTH: 4.0
 BEDROCK LITH.: VC
 SCREENED ZONE: VC

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	46600.000
CCL4	177.000
CD	<5.160
CH2CL2	<5.000
CHCL3	27.000
CL	28400.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.104
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1840.000
HG	<0.359
ISODR	<0.056
K	.
MEC6H5	<1.210
MG	16300.000
MIBK	<12.900
MXYLEN	<1.350
NA	63000.000
NIT	5770.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	50500.000
T12DCE	<1.200
TCLEE	2.310
TRCLE	1.360
XYLEN	<2.470
ZN	39.800

WELL 01008 AQUIFER: DENVER
 SCREENED INT.: 16.6- 20.0
 BEDROCK DEPTH: 9.0
 BEDROCK LITH.: VC
 SCREENED ZONE: VC

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	79000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	6.930
CL	149000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	5.970
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.154
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2820.000
HG	<0.359
ISODR	<0.056
K	3210.000
MEC6H5	<1.210
MG	30100.000
MIBK	<12.900
MXYLEN	<1.350
NA	348000.000
NIT	13600.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	559000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	2.710
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 01012
AQUIFER: DENVER
SCREENED INT.: 14.6- 18.0
BEDROCK DEPTH: 5.5
BEDROCK LITH.: VC
SCREENED ZONE: VC

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	1.570
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	127000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	118000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	16.500
CR	31.000
CU	22.500
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.118
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1560.000
HG	<0.359
ISODR	<0.056
K	3680.000
MEC6H5	<1.210
MG	48400.000
MIBK	<12.900
MXYLEN	<1.350
NA	127000.000
NIT	8150.000
OXAT	<1.350
PB	20.900
PPDDE	<0.046
PPDDT	<0.059
SO4	157000.000
T12DCE	4.260
TCLEE	15.500
TRCLE	1.200
XYLEN	<2.470
ZN	108.000

WELL 01015
AQUIFER: DENVER
SCREENED INT.: 57.9- 61.3
BEDROCK DEPTH: 3.0
BEDROCK LITH.: VC
SCREENED ZONE: AU

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	2.000
CA	389000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	36900.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1510.000
HG	<0.359
ISODR	<0.056
K	9520.000
MEC6H5	<1.210
MG	73200.000
MIBK	<12.900
MXYLEN	<1.350
NA	401000.000
NIT	987.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1900000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	98.900

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 01017
 AQUIFER: ALLUVIUM
 SCREENED INT.: 10.6- 14.0
 BEDROCK DEPTH: 12.5
 BEDROCK LITH.: VC
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	53800.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	2.610
CL	187000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2800.000
HG	<0.359
ISODR	<0.056
K	2940.000
MEC6H5	<1.210
MG	16200.000
MIBK	<12.900
MXYLEN	<1.350
NA	105000.000
NIT	12300.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PFDDT	<0.059
SO4	134000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	48.500

WELL 01020
 AQUIFER: ALLUVIUM
 SCREENED INT.: 6.0- 10.0
 BEDROCK DEPTH: 10.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<17.000
112TCE	<10.000
11DCE	<11.000
11DCLE	2.260
12DCLE	<6.100
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	> 9.040
CA	230000.000
CCL4	<2.400
CD	<5.160
CH2CL2	6.630
CHCL3	> 194.000
CL	370000.000
CL6CP	<0.083
CLC6H5	26.300
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	12.600
CU	44.900
DBCP	11.800
DCPD	<9.310
DIMP	<10.500
DITH	89.500
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2540.000
HG	<0.359
ISODR	<0.056
K	25000.000
MEC6H5	<1.210
MG	83900.000
MIBK	<12.900
MXYLEN	<1.350
NA	395000.000
NIT	288000.000
OXAT	9.440
PB	<18.600
PPDDE	<0.046
PFDDT	<0.059
SO4	637000.000
T12DCE	<12.000
TCLEE	4.970
TRCLE	> 194.000
XYLEN	<2.470
ZN	54.200

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL
01021

AQUIFER: ALLUVIUM
SCREENED INT.: 14.0- 64.0
BEDROCK DEPTH: 64.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	85000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	58700.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	10.800
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2850.000
MEC6H5	<1.210
MG	17100.000
MIBK	<12.900
MXYLEN	<1.350
NA	65500.000
NIT	1600.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	83100.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL
01022
AQUIFER: DENVER
SCREENED INT.: 107.0-117.0
BEDROCK DEPTH: 64.0
BEDROCK LITH.: SH
SCREENED ZONE: AM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	79600.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	12900.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	10.200
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	1730.000
MEC6H5	<1.210
MG	13800.000
MIBK	<12.900
MXYLEN	<1.350
NA	58600.000
NIT	1040.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	608000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 01024
 AQUIFER: ALLUVIUM
 SCREENED INT.: 4.0- 49.0
 BEDROCK DEPTH: 53.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<8.500
112TCE	<2.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	52000.000
CCL4	<12.000
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	58500.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	10.100
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	3170.000
MEC6H5	<1.210
MG	13500.000
MIBK	<12.900
MXYLEN	<1.350
NA	59700.000
NIT	258.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	66300.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<2.200
XYLEN	<2.470
ZN	<20.100

WELL 01025
 AQUIFER: DENVER
 SCREENED INT.: 66.0- 71.0
 BEDROCK DEPTH: 53.0
 BEDROCK LITH.: SH
 SCREENED ZONE: AU

COMPOUND	CONCENTRATION
111TCE	<3.400
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	20400.000
CCL4	<4.800
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	25800.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1340.000
HG	<0.359
ISODR	<0.056
K	1320.000
MEC6H5	<1.210
MG	1760.000
MIBK	<12.900
MXYLEN	<1.350
NA	78300.000
NIT	342.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	28900.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 01027
 AQUIFER: ALLUVIUM
 SCREENED INT.: 10.0- 15.0
 BEDROCK DEPTH: 14.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	117000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	484000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2270.000
HG	<0.359
ISODR	<0.056
K	4490.000
MEC6H5	<1.210
MG	42800.000
MIBK	<12.900
MXYLEN	<1.350
NA	261000.000
NIT	6310.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	178000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	54.900

WELL 01036
 AQUIFER: DENVER
 SCREENED INT.: 40.0- 60.0
 BEDROCK DEPTH: 7.5
 BEDROCK LITH.: SS
 SCREENED ZONE: AU

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	130000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	9.160
CL	115000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	0.517
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	3810.000
MEC6H5	<1.210
MG	38600.000
MIBK	<12.900
MXYLEN	<1.350
NA	56600.000
NIT	5340.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	222000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	380.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 01037
 AQUIFER: DENVER
 SCREENED INT.: 85.0-100.0
 BEDROCK DEPTH: 7.5
 BEDROCK LITH.: SS
 SCREENED ZONE: AML

WELL 01041
 AQUIFER: ALLUVIUM
 SCREENED INT.: 5.0- 15.0
 BEDROCK DEPTH: 12.0
 BEDROCK LITH.: ST
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	14500.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	13100.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	8.580
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	1040.000
MEC6H5	<1.210
MG	830.000
MIBK	<12.900
MXYLEN	<1.350
NA	136000.000
NIT	230.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	160000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	27.600

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	54300.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	3.340
CL	100000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	1.090
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2190.000
HG	<0.359
ISODR	<0.056
K	2210.000
MEC6H5	<1.210
MG	16000.000
MIBK	<12.900
MXYLEN	<1.350
NA	128000.000
NIT	7120.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	161000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	47.400

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 01043
 AQUIFER: DENVER
 SCREENED INT.: 123.0-149.0
 BEDROCK DEPTH: 12.0
 BEDROCK LITH.: ST
 SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	5660.000
CCL4	<2.400
CD	26.500
CH2CL2	<5.000
CHCL3	<1.400
CL	16600.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1740.000
HG	<0.359
ISODR	<0.056
K	<520.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	107000.000
NIT	2300.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	<10000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 01047
 AQUIFER: DENVER
 SCREENED INT.: 33.0- 43.0
 BEDROCK DEPTH: 10.0
 BEDROCK LITH.: VC
 SCREENED ZONE: VC

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	94400.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	3.510
CL	256000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1780.000
HG	<0.359
ISODR	<0.056
K	4930.000
MEC6H5	<1.210
MG	25100.000
MIBK	<12.900
MXYLEN	<1.350
NA	304000.000
NIT	3520.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	506000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 01048
 AQUIFER: DENVER
 SCREENED INT.: 160.0-210.0
 BEDROCK DEPTH: 10.0
 BEDROCK LITH.: VC
 SCREENED ZONE: 2

WELL 01050
 AQUIFER: DENVER
 SCREENED INT.: 77.0-117.0
 BEDROCK DEPTH: 34.3
 BEDROCK LITH.: VC
 SCREENED ZONE: AS

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	6020.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	8.120
CL	62600.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1720.000
HG	<0.359
ISODR	<0.056
K	718.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	116000.000
NIT	12.500
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	40700.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	63900.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	53900.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	3020.000
MEC6H5	<1.210
MG	3080.000
MIBK	<12.900
MXYLEN	<1.350
NA	215000.000
NIT	.
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	431000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL
02008

AQUIFER: ALLUVIUM
SCREENED INT.: 50.0- 70.0
BEDROCK DEPTH: 70.4
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	72400.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	92100.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	5.730
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.080
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2680.000
MEC6H5	<1.210
MG	15400.000
MIBK	<12.900
MXYLEN	<1.350
NA	83500.000
NIT	41.400
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	57500.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL
02009

AQUIFER: DENVER
SCREENED INT.: 115.0-125.0
BEDROCK DEPTH: 70.4
BEDROCK LITH.: SH
SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	4370.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	5300.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2640.000
HG	<0.359
ISODR	<0.056
K	<520.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	45900.000
NIT	62.600
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	<10000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 02010 AQUIFER: DENVER
 SCREENED INT.: 135.0-155.0
 BEDROCK DEPTH: 70.4
 BEDROCK LITH.: SH
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	3650.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	5970.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2170.000
HG	<0.359
ISODR	<0.056
K	<520.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	57400.000
NIT	.
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	<10000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 02011 AQUIFER: ALLUVIUM
 SCREENED INT.: 35.0- 95.0
 BEDROCK DEPTH: 99.0
 BEDROCK LITH.: LG
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	120000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	79300.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	11.100
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	4110.000
MEC6H5	<1.210
MG	24600.000
MIBK	<12.900
MXYLEN	<1.350
NA	86700.000
NIT	7370.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	187000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 02012 AQUIFER: DENVER
 SCREENED INT.: 128.0-133.0
 BEDROCK DEPTH: 99.0
 BEDROCK LITH.: LG
 SCREENED ZONE: 1U

WELL 02014 AQUIFER: ALLUVIUM
 SCREENED INT.: 40.0- 45.0
 BEDROCK DEPTH: 40.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	9350.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	<4800.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1900.000
HG	0.513
ISODR	<0.056
K	765.000
MEC6H5	<1.210
MG	517.000
MIBK	<12.900
MXYLEN	<1.350
NA	64700.000
NIT	50.100
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	<10000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	141000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	51.300
CL	405000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	3210.000
MEC6H5	<1.210
MG	15900.000
MIBK	<12.900
MXYLEN	<1.350
NA	191000.000
NIT	6360.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	81200.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	34.400

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 02018 AQUIFER: DENVER
 SCREENED INT.: 40.0- 55.0
 BEDROCK DEPTH: 19.5
 BEDROCK LITH.: SH
 SCREENED ZONE: AU

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	115000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	111000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1670.000
HG	<0.359
ISODR	<0.056
K	4570.000
MEC6H5	<1.210
MG	29500.000
MIBK	<12.900
MXYLEN	<1.350
NA	254000.000
NIT	7930.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	462000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	45.700

WELL 02019 AQUIFER: DENVER
 SCREENED INT.: 80.0- 95.0
 BEDROCK DEPTH: 19.5
 BEDROCK LITH.: SH
 SCREENED ZONE: AL

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	330000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	119000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	15.800
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1510.000
HG	<0.359
ISODR	<0.056
K	5520.000
MEC6H5	<1.210
MG	31100.000
MIBK	<12.900
MXYLEN	<1.350
NA	636000.000
NIT	41.600
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1850000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL
02020AQUIFER: ALLUVIUM
SCREENED INT.: 9.5- 40.0
BEDROCK DEPTH: 39.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	3.270
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	123000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	8.400
CL	326000.000
CL6CP	<0.211
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.225
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	2650.000
MEC6H5	<1.210
MG	23900.000
MIBK	<12.900
MXYLEN	<1.350
NA	117000.000
NIT	195.000
OXAT	<1.350
PB	23.700
PPDDE	<0.046
PPDDT	<0.059
SO4	72500.000
T12DCE	1.350
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	83.500

WELL
02021AQUIFER: DENVER
SCREENED INT.: 49.0- 84.0
BEDROCK DEPTH: 39.5
BEDROCK LITH.: SH
SCREENED ZONE: AL

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	8.820
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	270000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	19.800
CL	779000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	4200.000
MEC6H5	<1.210
MG	46800.000
MIBK	<12.900
MXYLEN	<1.350
NA	166000.000
NIT	231.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	54000.000
T12DCE	5.080
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 02025 AQUIFER: DENVER
 SCREENED INT.: 90.0-105.0
 BEDROCK DEPTH: 27.5
 BEDROCK LITH.: SH
 SCREENED ZONE: 1U

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	90800.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	38500.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	3.160
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2480.000
MEC6H5	<1.210
MG	7340.000
MIBK	<12.900
MXYLEN	<1.350
NA	397000.000
NIT	24.200
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	764000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	33.500

WELL 02030 AQUIFER: DENVER
 SCREENED INT.: 53.0- 73.0
 BEDROCK DEPTH: 7.0
 BEDROCK LITH.: SH
 SCREENED ZONE: AUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	1650000.000
CCL4	7.600
CD	<5.160
CH2CL2	<5.000
CHCL3	120.000
CL	7290000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	89.100
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	4490.000
HG	<0.359
ISODR	<0.056
K	15100.000
MEC6H5	<1.210
MG	467000.000
MIBK	<12.900
MXYLEN	<1.350
NA	902000.000
NIT	8740.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	315000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	39.800

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 02031
 AQUIFER: DENVER
 SCREENED INT.: 103.0-138.0
 BEDROCK DEPTH: 7.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1U

WELL 02034
 AQUIFER: ALLUVIUM
 SCREENED INT.: 10.0- 20.0
 BEDROCK DEPTH: 20.3
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	208000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	1.710
CL	87700.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	3070.000
MEC6H5	<1.210
MG	4520.000
MIBK	<12.900
MXYLEN	<1.350
NA	485000.000
NIT	331.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1330000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	3.740
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	89300.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	10.500
CL	124000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	3.890
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1590.000
HG	<0.359
ISODR	<0.056
K	3950.000
MEC6H5	<1.210
MG	20600.000
MIBK	<12.900
MXYLEN	<1.350
NA	161000.000
NIT	17100.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	198000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	3.700
XYLEN	<2.470
ZN	53.800

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 02035 AQUIFER: DENVER
 SCREENED INT.: 31.0- 46.0
 BEDROCK DEPTH: 20.3
 BEDROCK LITH.: SH
 SCREENED ZONE: AMU

WELL 02036 AQUIFER: DENVER
 SCREENED INT.: 93.0-108.0
 BEDROCK DEPTH: 20.3
 BEDROCK LITH.: SH
 SCREENED ZONE: 1U

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	5.210
12DCLE	<2.990
ALDRN	<0.166
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	144000.000
CCL4	5.550
CD	<5.160
CH2CL2	<5.000
CHCL3	> 194.000
CL	372000.000
CL6CP	<0.166
CLC6H5	<0.580
CLDAN	<0.304
CPMS	4.090
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.110
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.120
ETC6H5	<1.280
FL	1700.000
HG	<0.359
ISODR	<0.112
K	3580.000
MEC6H5	<1.210
MG	29100.000
MIBK	<12.900
MXYLEN	<1.350
NA	288000.000
NIT	3200.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.092
PPDDT	<0.118
SO4	247000.000
T12DCE	<1.200
TCLEE	3.060
TRCLE	5.420
XYLEN	<2.470
ZN	32.000

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	47400.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	28500.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	1600.000
MEC6H5	<1.210
MG	1770.000
MIBK	<12.900
MXYLEN	<1.350
NA	301000.000
NIT	108.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	628000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 02037
 AQUIFER: ALLUVIUM
 SCREENED INT.: 12.0- 22.0
 BEDROCK DEPTH: 17.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

WELL 02038
 AQUIFER: DENVER
 SCREENED INT.: 28.0- 43.0
 BEDROCK DEPTH: 17.0
 BEDROCK LITH.: SH
 SCREENED ZONE: AM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	87500.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	109000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	11.200
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.966
DMDS	<1.160
DMMP	<15.200
ENDRN	0.103
ETC6H5	<1.280
FL	1970.000
HG	<0.359
ISODR	<0.056
K	3240.000
MEC6H5	<1.210
MG	19000.000
MIBK	<12.900
MXYLEN	<1.350
NA	117000.000
NIT	5590.000
OXAT	<1.350
PB	<18.600
PPDDE	0.124
PPDDT	<0.059
SO4	110000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	29.300

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	90400.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	8.880
CL	245000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.149
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1550.000
HG	<0.359
ISODR	<0.056
K	4160.000
MEC6H5	<1.210
MG	23900.000
MIBK	<12.900
MXYLEN	<1.350
NA	259000.000
NIT	8410.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	253000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	42.300

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 02039 AQUIFER: DENVER
 SCREENED INT.: 76.0- 86.0
 BEDROCK DEPTH: 17.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1U

WELL 02043 AQUIFER: DENVER
 SCREENED INT.: 46.5- 61.5
 BEDROCK DEPTH: 13.5
 BEDROCK LITH.: VC
 SCREENED ZONE: AU

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	83700.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	37200.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	2110.000
MEC6H5	<1.210
MG	10400.000
MIBK	<12.900
MXYLEN	<1.350
NA	390000.000
NIT	<10.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	477000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	210000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	101000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	13.800
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1450.000
HG	<0.359
ISODR	<0.056
K	5520.000
MEC6H5	<1.210
MG	46900.000
MIBK	<12.900
MXYLEN	<1.350
NA	308000.000
NIT	10900.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	941000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 03002
AQUIFER: ALLUVIUM
SCREENED INT.: 43.0-103.0
BEDROCK DEPTH: 105.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	67100.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	34700.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	3740.000
MEC6H5	<1.210
MG	8450.000
MIBK	<12.900
MXYLEN	<1.350
NA	38000.000
NIT	6970.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	49000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<40.200

WELL 03003
AQUIFER: DENVER
SCREENED INT.: 136.0-146.0
BEDROCK DEPTH: 105.5
BEDROCK LITH.: SH
SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	64100.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	36400.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	3740.000
MEC6H5	<1.210
MG	8120.000
MIBK	<12.900
MXYLEN	<1.350
NA	37100.000
NIT	4720.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	50100.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	104.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 03004 AQUIFER: DENVER
SCREENED INT.: 168.0-178.0
BEDROCK DEPTH: 105.5
BEDROCK LITH.: SH
SCREENED ZONE: 4

WELL 03005 AQUIFER: ALLUVIUM
SCREENED INT.: 20.0- 70.0
BEDROCK DEPTH: 59.0
BEDROCK LITH.: SS
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	0.907
ALDRN	<0.083
AS	8.070
BTZ	2.340
C6H6	<1.340
CA	8630.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	<4800.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	3190.000
HG	<0.359
ISODR	<0.056
K	1950.000
MEC6H5	<1.210
MG	630.000
MIBK	<12.900
MXYLEN	<1.350
NA	74200.000
NIT	28.900
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	23800.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	52.200

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	111000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	2.850
CL	184000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	<7.940
DBCP	0.417
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	2.940
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4340.000
MEC6H5	<1.210
MG	17400.000
MIBK	<12.900
MXYLEN	<1.350
NA	142000.000
NIT	4130.000
OXAT	<1.350
PB	<18.600
PPDDE	0.195
PPDDT	<0.059
SO4	111000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	274.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 03006
 AQUIFER: DENVER
 SCREENED INT.: 110.0-120.0
 BEDROCK DEPTH: 59.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	12600.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	25500.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1740.000
HG	<0.359
ISODR	<0.056
K	1600.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	72600.000
NIT	527.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	23700.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 03008
 AQUIFER: ALLUVIUM
 SCREENED INT.: 55.1- 65.1
 BEDROCK DEPTH: 0.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	103000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	52800.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	8.730
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
LITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	5520.000
MEC6H5	<1.210
MG	19900.000
MIBK	<12.900
MXYLEN	<1.350
NA	58700.000
NIT	16400.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	107000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 03518 AQUIFER: ALLUVIUM
SCREENED INT.: 42.0- 52.0
BEDROCK DEPTH: 60.0
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	123000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	72800.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	14.100
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	4110.000
MEC6H5	<1.210
MG	24000.000
MIBK	<12.900
MXYLEN	<1.350
NA	82000.000
NIT	8610.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	173000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 03523 AQUIFER: ALLUVIUM
SCREENED INT.: 63.0- 73.0
BEDROCK DEPTH: 76.0
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	112000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	8.160
CL	69000.000
CL6CP	0.361
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	14.400
CU	<7.940
DBCP	45.400
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4750.000
MEC6H5	<1.210
MG	16000.000
MIBK	<12.900
MXYLEN	<1.350
NA	62900.000
NIT	7920.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	130000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<40.200

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 04007
 AQUIFER: ALLUVIUM
 SCREENED INT.: 39.2- 78.0
 BEDROCK DEPTH: 78.0
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

WELL 04008
 AQUIFER: DENVER
 SCREENED INT.: 88.0- 98.0
 BEDROCK DEPTH: 78.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	168000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	113000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	14.000
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	5570.000
MEC6H5	<1.210
MG	19400.000
MIBK	<12.900
MXYLEN	<1.350
NA	105000.000
NIT	8420.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	330000.000
T12DCE	3.600
TCLEE	<1.300
TRCLE	2.360
XYLEN	<2.470
ZN	48.200

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	18700.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	5730.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	3400.000
HG	<0.359
ISODR	<0.056
K	957.000
MEC6H5	<1.210
MG	1220.000
MIBK	<12.900
MXYLEN	<1.350
NA	48700.000
NIT	2140.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	25800.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<40.200

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 04009 AQUIFER: DENVER
 SCREENED INT.: 145.0-155.0
 BEDROCK DEPTH: 78.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 5

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	22.200
BTZ	1.500
C6H6	3.050
CA	9440.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	<4800.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	13.700
FL	5640.000
HG	<0.359
ISODR	<0.056
K	3810.000
MEC6H5	5.200
MG	<500.000
MIBK	<12.900
MXYLEN	45.100
NA	74500.000
NIT	1330.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	17700.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	53.400
ZN	30.100

WELL 04010 AQUIFER: ALLUVIUM
 SCREENED INT.: 65.0- 90.0
 BEDROCK DEPTH: 87.0
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	95300.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	43300.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	13.100
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4460.000
MEC6H5	<1.210
MG	12700.000
MIBK	<12.900
MXYLEN	<1.350
NA	47200.000
NIT	10200.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	87500.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	66.700

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 04011
 AQUIFER: DENVER
 SCREENED INT.: 153.0-158.0
 BEDROCK DEPTH: 87.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 5

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	12.600
BTZ	<1.140
C6H6	<1.340
CA	12100.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	<4800.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	7870.000
HG	<0.359
ISODR	<0.056
K	1430.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	76700.000
NIT	3990.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	14900.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<2.200
XYLEN	<2.470
ZN	<40.200

WELL 04014
 AQUIFER: ALLUVIUM
 SCREENED INT.: 71.0- 81.0
 BEDROCK DEPTH: 101.2
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	134000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	93300.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	12.100
CU	<7.940
DBCP	15.900
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	5650.000
MEC6H5	<1.210
MG	15700.000
MIBK	<12.900
MXYLEN	<1.350
NA	64500.000
NIT	12000.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	162000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	36.600

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 04021
 AQUIFER: ALLUVIUM
 SCREENED INT.: 70.0- 80.0
 BEDROCK DEPTH: 100.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	1.050
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	102000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	2.400
CL	66400.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	5380.000
MEC6H5	<1.210
MG	14500.000
MIBK	<12.900
MXYLEN	<1.350
NA	57800.000
NIT	9530.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	136000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	22.800
XYLEN	<2.470
ZN	105.000

WELL 04024
 AQUIFER: ALLUVIUM
 SCREENED INT.: 65.0- 75.0
 BEDROCK DEPTH: 86.3
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	0.784
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	71500.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	35900.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	8.200
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	3870.000
MEC6H5	<1.210
MG	8940.000
MIBK	<12.900
MXYLEN	<1.350
NA	50300.000
NIT	10900.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	77700.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	47.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 04027
 AQUIFER: ALLUVIUM
 SCREENED INT.: 69.0- 79.0
 BEDROCK DEPTH: 99.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	114000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	82200.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	13.000
CU	<7.940
DBCP	30.400
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	5030.000
MEC6H5	<1.210
MG	18900.000
MIBK	<12.900
MXYLEN	<1.350
NA	62400.000
NIT	8890.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	147000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 04030
 AQUIFER: ALLUVIUM
 SCREENED INT.: 0.0- 0.0
 BEDROCK DEPTH: 103.3
 BEDROCK LITH.: LG
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	94500.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	49700.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	14.000
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4270.000
MEC6H5	<1.210
MG	16200.000
MIBK	<12.900
MXYLEN	<1.350
NA	63000.000
NIT	12200.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	108000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	119.000
XYLEN	<2.470
ZN	102.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 04038
 AQUIFER: ALLUVIUM
 SCREENED INT.: 64.9-- 84.9
 BEDROCK DEPTH: 87.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	27.000
112TCE	<1.000
11DCE	8.330
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	122000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	74200.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	4490.000
MEC6H5	<1.210
MG	13000.000
MIBK	<12.900
MXYLEN	<1.350
NA	56900.000
NIT	8780.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	181000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	26.300
XYLEN	<2.470
ZN	33.900

WELL 04041
 AQUIFER: ALLUVIUM
 SCREENED INT.: 50.7-- 70.7
 BEDROCK DEPTH: 73.8
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	14.500
112TCE	<1.000
11DCE	5.820
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	114000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	69000.000
CL6CP	<0.083
CLC6H5	1.700
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	10.700
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	4270.000
MEC6H5	<1.210
MG	13300.000
MIBK	<12.900
MXYLEN	<1.350
NA	49000.000
NIT	9370.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	132000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	21.300
XYLEN	<2.470
ZN	58.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 04042 AQUIFER: ALLUVIUM
 SCREENED INT.: 78.5- 93.5
 BEDROCK DEPTH: 94.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	194000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	185000.000
CL6CP	<0.083
CLC6H5	1.820
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	6570.000
MEC6H5	<1.210
MG	18600.000
MIBK	<12.900
MXYLEN	<1.350
NA	136000.000
NIT	5970.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	364000.000
T12DCE	1.900
TCLEE	4.410
TRCLE	3.620
XYLEN	<2.470
ZN	31.600

WELL 04044 AQUIFER: ALLUVIUM
 SCREENED INT.: 49.0- 69.0
 BEDROCK DEPTH: 69.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	187000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	164000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	9.510
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	6850.000
MEC6H5	<1.210
MG	18900.000
MIBK	<12.900
MXYLEN	<1.350
NA	123000.000
NIT	5750.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	355000.000
T12DCE	1.850
TCLEE	4.590
TRCLE	4.240
XYLEN	<2.470
ZN	<40.200

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 04045
AQUIFER: ALLUVIUM
SCREENED INT.: 88.0-108.0
BEDROCK DEPTH: 108.0
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	199000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	153000.000
CL6CP	<0.083
CLC6H5	1.080
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	12.600
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	5870.000
MEC6H5	<1.210
MG	17600.000
MIBK	<12.900
MXYLEN	<1.350
NA	128000.000
NIT	5820.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	352000.000
T12DCE	2.840
TCLEE	4.760
TRCLE	4.850
XYLEN	<2.470
ZN	30.200

WELL 05001
AQUIFER: DENVER
SCREENED INT.: 22.8- 28.8
BEDROCK DEPTH: 6.4
BEDROCK LITH.: ST
SCREENED ZONE: B

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	331000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	158000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	15.700
CU	9.740
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2020.000
HG	<0.359
ISODR	<0.056
K	8660.000
MEC6H5	<1.210
MG	38600.000
MIBK	<12.900
MXYLEN	<1.350
NA	313000.000
NIT	51500.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1170000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	73.900

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 06002
 AQUIFER: ALLUVIUM
 SCREENED INT.: 25.7- 32.7
 BEDROCK DEPTH: 32.7
 BEDROCK LITH.: ST
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	54700.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	25700.000
CL6CP	<0.083
CLC6H5	1.390
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1310.000
HG	<0.359
ISODR	<0.056
K	3020.000
MEC6H5	<1.210
MG	11400.000
MIBK	<12.900
MXYLEN	<1.350
NA	79100.000
NIT	6900.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	79800.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	40.900

WELL 06003
 AQUIFER: ALLUVIUM
 SCREENED INT.: 9.0- 19.0
 BEDROCK DEPTH: 21.0
 BEDROCK LITH.: ST
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	77600.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	73100.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	7.300
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	4010.000
MEC6H5	<1.210
MG	27200.000
MIBK	<12.900
MXYLEN	<1.350
NA	106000.000
NIT	2500.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	220000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	111.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 06004 AQUIFER: DENVER
 SCREENED INT.: 58.0- 63.0
 BEDROCK DEPTH: 21.0
 BEDROCK LITH.: ST
 SCREENED ZONE: A SH

WELL 06005 AQUIFER: DENVER
 SCREENED INT.: 83.0- 93.0
 BEDROCK DEPTH: 21.0
 BEDROCK LITH.: ST
 SCREENED ZONE: AL LG

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	2.570
BTZ	<1.140
C6H6	<1.340
CA	67000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	12000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2860.000
MEC6H5	<1.210
MG	5430.000
MIBK	<12.900
MXYLEN	<1.350
NA	105000.000
NIT	70.200
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	319000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	15900.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	13600.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	963.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	109000.000
NIT	20.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	146000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 07001
 AQUIFER: ALLUVIUM
 SCREENED INT.: 16.8- 21.8
 BEDROCK DEPTH: 21.3
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	413000.000
CCL4	<2.400
CD	11.500
CH2CL2	<5.000
CHCL3	<1.400
CL	39500.000
CL6CP	<0.083
CLC6H5	1.870
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	37.400
CU	29.600
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2650.000
HG	<0.359
ISODR	<0.056
K	4920.000
MEC6H5	<1.210
MG	26600.000
MIBK	<12.900
MXYLEN	<1.350
NA	363000.000
NIT	726.000
OXAT	<1.350
PB	24.200
PPDDE	<0.046
PPDDT	<0.059
SO4	295000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	96.900

WELL 07004
 AQUIFER: DENVER
 SCREENED INT.: 44.0- 59.0
 BEDROCK DEPTH: 22.0
 BEDROCK LITH.: SH
 SCREENED ZONE: B

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	.
BTZ	<1.140
C6H6	<1.340
CA	.
CCL4	<2.400
CD	.
CH2CL2	<5.000
CHCL3	<1.400
CL	.
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	.
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	.
ENDRN	<0.060
ETC6H5	<1.280
FL	.
HG	.
ISODR	<0.056
K	.
MEC6H5	<1.210
MG	.
MIBK	<12.900
MXYLEN	<1.350
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	.
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 08003 AQUIFER: ALLUVIUM
 SCREENED INT.: 9.0- 29.0
 BEDROCK DEPTH: 29.0
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	0.636
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	76100.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	50600.000
CL6CP	<0.083
CLC6H5	0.737
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	11.000
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	3020.000
MEC6H5	<1.210
MG	20100.000
MIBK	<12.900
MXYLEN	<1.350
NA	78200.000
NIT	> 20000.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	77600.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 08005 AQUIFER: DENVER
 SCREENED INT.: 148.0-208.0
 BEDROCK DEPTH: 29.0
 BEDROCK LITH.: SS
 SCREENED ZONE: AL LG

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	2.570
BTZ	<1.140
C6H6	<1.340
CA	4740.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	23100.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1210.000
HG	<0.359
ISODR	<0.056
K	659.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	92900.000
NIT	12.200
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	17100.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	41.900

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 09002
 AQUIFER: ALLUVIUM
 SCREENED INT.: 64.0- 84.0
 BEDROCK DEPTH: 84.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	170000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	94200.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	13.300
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	6220.000
MEC6H5	<1.210
MG	19600.000
MIBK	<12.900
MXYLEN	<1.350
NA	107000.000
NIT	8430.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	335000.000
T12DCE	<1.200
TCLEE	1.590
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 09003
 AQUIFER: DENVER
 SCREENED INT.: 104.0-129.0
 BEDROCK DEPTH: 84.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	21600.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	5890.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1450.000
HG	<0.359
ISODR	<0.056
K	1040.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	59600.000
NIT	.
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	59300.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	21.600

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 09005
 AQUIFER: ALLUVIUM
 SCREENED INT.: 51.5- 77.0
 BEDROCK DEPTH: 78.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	187000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	115000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	12.300
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	5870.000
MEC6H5	<1.210
MG	16800.000
MIBK	<12.900
MXYLEN	<1.350
NA	124000.000
NIT	11600.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	330000.000
T12DCE	8.990
TCLEE	1.870
TRCLE	5.860
XYLEN	<2.470
ZN	28.500

WELL 09006
 AQUIFER: ALLUVIUM
 SCREENED INT.: 41.8- 67.3
 BEDROCK DEPTH: 68.3
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	173000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	137000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	11.600
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4090.000
MEC6H5	<1.210
MG	17600.000
MIBK	<12.900
MXYLEN	<1.350
NA	73300.000
NIT	3510.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	264000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	39.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 09008
 AQUIFER: ALLUVIUM
 SCREENED INT.: 60.8- 75.8
 BEDROCK DEPTH: 76.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	8.180
112TCE	<1.000
11DCE	2.960
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	130000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	85900.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4750.000
MEC6H5	<1.210
MG	11100.000
MIBK	<12.900
MXYLEN	<1.350
NA	51600.000
NIT	9820.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	142000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	17.400
XYLEN	<2.470
ZN	<40.200

WELL 09010
 AQUIFER: ALLUVIUM
 SCREENED INT.: 64.0- 84.0
 BEDROCK DEPTH: 85.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	88700.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	44700.000
CL6CP	<0.083
CLC6H5	0.659
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	3280.000
MEC6H5	<1.210
MG	10100.000
MIBK	<12.900
MXYLEN	<1.350
NA	48300.000
NIT	6870.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	84500.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<40.200

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 09011
 AQUIFER: ALLUVIUM
 SCREENED INT.: 75.0- 90.0
 BEDROCK DEPTH: 90.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	73.000
112TCE	<1.000
11DCE	24.200
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	129000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	79500.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	6.140
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4750.000
MEC6H5	<1.210
MG	11200.000
MIBK	<12.900
MXYLEN	<1.350
NA	61500.000
NIT	8690.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	168000.000
T12DCE	1.600
TCLEE	<1.300
TRCLE	36.300
XYLEN	<2.470
ZN	<40.200

WELL 09013
 AQUIFER: ALLUVIUM
 SCREENED INT.: 55.0- 75.0
 BEDROCK DEPTH: 0.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	85.200
112TCE	<1.000
11DCE	28.700
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	137000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	87300.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	8.770
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	5300.000
MEC6H5	<1.210
MG	12200.000
MIBK	<12.900
MXYLEN	<1.350
NA	60300.000
NIT	9030.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	161000.000
T12DCE	2.570
TCLEE	<1.300
TRCLE	41.500
XYLEN	<2.470
ZN	<40.200

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 11002
 AQUIFER: ALLUVIUM
 SCREENED INT.: 20.0- 65.0
 BEDROCK DEPTH: 65.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

WELL 11004
 AQUIFER: DENVER
 SCREENED INT.: 97.0-103.0
 BEDROCK DEPTH: 65.0
 BEDROCK LITH.: SH
 SCREENED ZONE: AU

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	47600.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	34000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1350.000
HG	<0.359
ISODR	<0.056
K	3320.000
MEC6H5	<1.210
MG	7280.000
MIBK	<12.900
MXYLEN	<1.350
NA	25400.000
NIT	3730.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	22200.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	61.600

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	8670.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	5520.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1750.000
HG	<0.359
ISODR	<0.056
K	659.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	58400.000
NIT	32.800
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	12100.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 12002
 AQUIFER: ALLUVIUM
 SCREENED INT.: 19.0- 44.0
 BEDROCK DEPTH: 43.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	95900.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	102000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	17.100
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	4540.000
MEC6H5	<1.210
MG	19300.000
MIBK	<12.900
MXYLEN	<1.350
NA	82900.000
NIT	3810.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	149000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	29.500

WELL 12003
 AQUIFER: DENVER
 SCREENED INT.: 60.0- 70.0
 BEDROCK DEPTH: 43.0
 BEDROCK LITH.: SH
 SCREENED ZONE: B

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	57100.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	32800.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	1880.000
MEC6H5	<1.210
MG	8130.000
MIBK	<12.900
MXYLEN	<1.350
NA	43000.000
NIT	4080.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	47900.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	28.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 12004
 AQUIFER: DENVER
 SCREENED INT.: 109.5-124.5
 BEDROCK DEPTH: 43.0
 BEDROCK LITH.: SH
 SCREENED ZONE: AU

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	16100.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	7630.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	818.000
MEC6H5	<1.210
MG	548.000
MIBK	<12.900
MXYLEN	<1.350
NA	87000.000
NIT	<100.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	85300.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 19001
 AQUIFER: ALLUVIUM
 SCREENED INT.: 23.6- 39.6
 BEDROCK DEPTH: 25.1
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	158000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	147000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	17.900
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1310.000
HG	<0.359
ISODR	<0.056
K	2710.000
MEC6H5	<1.210
MG	46400.000
MIBK	<12.900
MXYLEN	<1.350
NA	202000.000
NIT	176.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	570000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 19003 AQUIFER: DENVER
 SCREENED INT.: 13.0- 21.0
 BEDROCK DEPTH: 5.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1

WELL 19015 AQUIFER: DENVER
 SCREENED INT.: 55.0- 75.0
 BEDROCK DEPTH: 39.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	304000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	173000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	43.200
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	8.920
DMDS	<1.160
DMMP	<15.200
ENDRN	0.198
ETC6H5	<1.280
FL	2340.000
HG	<0.359
ISODR	<0.056
K	4840.000
MEC6H5	<1.210
MG	89300.000
MIBK	<12.900
MXYLEN	<1.350
NA	442000.000
NIT	3210.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1800000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	59.600

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	124000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	83300.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	12.500
CU	16.700
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	4620.000
MEC6H5	<1.210
MG	26500.000
MIBK	<12.900
MXYLEN	<1.350
NA	495000.000
NIT	137.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	987000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 19017
 AQUIFER: DENVER
 SCREENED INT.: 27.0- 47.0
 BEDROCK DEPTH: 13.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1

WELL 22005
 AQUIFER: ALLUVIUM
 SCREENED INT.: 37.0- 43.5
 BEDROCK DEPTH: 43.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	76300.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	44200.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	13.300
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	10900.000
MEC6H5	<1.210
MG	19500.000
MIBK	<12.900
MXYLEN	<1.350
NA	146000.000
NIT	22800.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	194000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	304.000

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	16.500
CL	286000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	.
DITH	.
DLDRN	0.087
DMDS	.
DMMP	.
ENDRN	<0.060
ETC6H5	<0.620
FL	1930.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	156000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 22006
AQUIFER: ALLUVIUM
SCREENED INT.: 18.5- 22.5
BEDROCK DEPTH: 22.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	152000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	112000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	15.500
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	4130.000
HG	<0.359
ISODR	<0.056
K	5550.000
MEC6H5	<1.210
MG	43500.000
MIBK	<12.900
MXYLEN	<1.350
NA	463000.000
NIT	3000.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1270000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<101.000

WELL 22008
AQUIFER: ALLUVIUM
SCREENED INT.: 45.0- 63.3
BEDROCK DEPTH: 63.2
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	9.370
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	20.400
CL	736000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	0.344
DCPD	<9.310
DIMP	58.300
DITH	.
DLDRN	0.654
DMDS	.
DMMP	<15.200
ENDRN	0.294
ETC6H5	<0.620
FL	2980.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	407000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	2.620
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 22011
 AQUIFER: ALLUVIUM
 SCREENED INT.: 38.5- 42.5
 BEDROCK DEPTH: 42.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	5.830
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	402000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.100
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	3220.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	321000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 22015
 AQUIFER: ALLUVIUM
 SCREENED INT.: 41.0- 51.0
 BEDROCK DEPTH: 51.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	4.270
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	28.100
CL	460000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	0.147
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.235
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2940.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	232000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	1.940
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 22016 AQUIFER: ALLUVIUM
SCREENED INT.: 37.0- 47.0
BEDROCK DEPTH: 47.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	2.930
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	30.200
CL	353000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	12.000
DITH	.
DLDRN	0.192
DMDS	.
DMMP	<15.200
ENDRN	0.112
ETC6H5	<0.620
FL	2100.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	194000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	2.170
XYLEN	<1.340
ZN	.

WELL 22017 AQUIFER: ALLUVIUM
SCREENED INT.: 42.0- 52.0
BEDROCK DEPTH: 52.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	3.370
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	34.200
CL	430000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.272
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2220.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	231000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 22018
 AQUIFER: ALLUVIUM
 SCREENED INT.: 30.5- 40.5
 BEDROCK DEPTH: 40.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	10.300
CL	312000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	<0.054
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1900.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	168000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 22019
 AQUIFER: ALLUVIUM
 SCREENED INT.: 42.0- 52.0
 BEDROCK DEPTH: 52.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	11.000
CL	315000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	<0.054
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1820.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	171000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 22021
AQUIFER: ALLUVIUM
SCREENED INT.: 38.1- 47.1
BEDROCK DEPTH: 57.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	122000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	13.100
CL	387000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1230.000
HG	<0.359
ISODR	<0.056
K	5380.000
MEC6H5	<1.210
MG	34500.000
MIBK	<12.900
MXYLEN	<1.350
NA	197000.000
NIT	3720.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	2520000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	33.500

WELL 22023
AQUIFER: DENVER
SCREENED INT.: 70.0- 80.0
BEDROCK DEPTH: 57.0
BEDROCK LITH.: SH
SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	4.240
BTZ	<1.140
C6H6	<1.340
CA	51500.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	104000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	1740.000
MEC6H5	<1.210
MG	5640.000
MIBK	<12.900
MXYLEN	<1.350
NA	72400.000
NIT	108.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	62400.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<101.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 22024
 AQUIFER: DENVER
 SCREENED INT.: 95.0-105.0
 BEDROCK DEPTH: 57.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 5

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	4.940
BTZ	<1.140
C6H6	<1.340
CA	50000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	14600.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	12.500
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2480.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	98500.000
NIT	201.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	83700.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	45.600

WELL 22027
 AQUIFER: DENVER
 SCREENED INT.: 65.0- 75.0
 BEDROCK DEPTH: 44.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	> 9.040
CA	460000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	346000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	26.000
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1900.000
HG	<0.359
ISODR	<0.056
K	10100.000
MEC6H5	<1.210
MG	38500.000
MIBK	<12.900
MXYLEN	<1.350
NA	838000.000
NIT	379.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1990000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	41.200

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 22028 AQUIFER: DENVER
SCREENED INT.: 100.0-115.0
BEDROCK DEPTH: 44.0
BEDROCK LITH.: SH
SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	273000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	643000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	6.620
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1740.000
HG	<0.359
ISODR	<0.056
K	5050.000
MEC6H5	<1.210
MG	9740.000
MIBK	<12.900
MXYLEN	<1.350
NA	737000.000
NIT	224.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1550000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 22030 AQUIFER: DENVER
SCREENED INT.: 100.0-110.0
BEDROCK DEPTH: 29.0
BEDROCK LITH.: SH
SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	122000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	444000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	14.400
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1290.000
HG	<0.359
ISODR	<0.056
K	2570.000
MEC6H5	<1.210
MG	5200.000
MIBK	<12.900
MXYLEN	<1.350
NA	520000.000
NIT	51.600
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	773000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 22031
 AQUIFER: DENVER
 SCREENED INT.: 124.0-134.0
 BEDROCK DEPTH: 29.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 5

WELL 22033
 AQUIFER: ALLUVIUM
 SCREENED INT.: 31.5- 55.5
 BEDROCK DEPTH: 55.5
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	76200.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	455000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2010.000
MEC6H5	<1.210
MG	1070.000
MIBK	<12.900
MXYLEN	<1.350
NA	444000.000
NIT	34.400
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	476000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	113.000

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	16.200
CL	295000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	<0.054
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1680.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	153000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 22043 AQUIFER: ALLUVIUM
SCREENED INT.: 34.5- 57.5
BEDROCK DEPTH: 57.5
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	40.400
CL	323000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.147
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1640.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	140000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	1.790
XYLEN	<1.340
ZN	.

WELL 22044 AQUIFER: ALLUVIUM
SCREENED INT.: 27.5- 32.5
BEDROCK DEPTH: 32.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	4.720
BTZ	.
C6H6	7.420
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	743000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.159
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	3750.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	403000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 22049
 AQUIFER: ALLUVIUM
 SCREENED INT.: 25.3- 35.3
 BEDROCK DEPTH: 35.8
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	.
AS	.
BTZ	.
C6H6	<1.340
CA	.
CCL4	<2.400
CD	.
CH2CL2	<5.000
CHCL3	<1.400
CL	.
CL6CP	.
CLC6H5	<0.580
CLDAN	.
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<21.600
DIMP	13.600
DITH	.
DLDRN	.
DMDS	.
DMMP	<15.200
ENDRN	.
ETC6H5	<1.280
FL	.
HG	.
ISODR	.
K	.
MEC6H5	<1.210
MG	.
MIBK	<12.900
MXYLEN	<1.350
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	.
PPDDT	.
SO4	.
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	.

WELL 22051
 AQUIFER: ALLUVIUM
 SCREENED INT.: 25.2- 45.2
 BEDROCK DEPTH: 45.5
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	5.820
BTZ	<1.140
C6H6	<1.340
CA	135000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	738000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	11.600
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.377
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2270.000
HG	<0.359
ISODR	<0.056
K	6810.000
MEC6H5	<1.210
MG	31100.000
MIBK	<12.900
MXYLEN	<1.350
NA	444000.000
NIT	19700.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	295000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	45.300

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 22053 AQUIFER: ALLUVIUM
 SCREENED INT.: 30.0- 50.0
 BEDROCK DEPTH: 46.5
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	7.660
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	15.300
CL	757000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	0.279
DCPD	<9.310
DIMP	24.800
DITH	.
DLDRN	0.419
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	3030.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	430000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	1.680
XYLEN	<1.340
ZN	.

WELL 22059 AQUIFER: ALLUVIUM
 SCREENED INT.: 42.7- 52.7
 BEDROCK DEPTH: 53.4
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	324000.000
CCL4	<2.400
CD	7.070
CH2CL2	<5.000
CHCL3	26.700
CL	615000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	2.160
CPMSO2	<2.240
CR	649.000
CU	589.000
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.188
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2170.000
HG	<0.359
ISODR	<0.056
K	2060.000
MEC6H5	<1.210
MG	197000.000
MIBK	<12.900
MXYLEN	<1.350
NA	383000.000
NIT	5000.000
OXAT	<1.350
PB	75.300
PPDDE	<0.046
PPDDT	<0.059
SO4	252000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	2210.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 22065
 AQUIFER: ALLUVIUM
 SCREENED INT.: 0.0- 0.0
 BEDROCK DEPTH: 0.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	15.900
CL	322000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	<0.054
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1780.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	174000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 23004
 AQUIFER: ALLUVIUM
 SCREENED INT.: 15.0- 27.0
 BEDROCK DEPTH: 31.9
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<170.000
112TCE	<100.000
11DCE	<110.000
11DCLE	<120.000
12DCLE	<61.000
ALDRN	<0.415
AS	4.980
BTZ	<1.140
C6H6	<134.000
CA	623000.000
CCL4	<240.000
CD	<5.160
CH2CL2	<500.000
CHCL3	7330.000
CL	2650000.000
CL6CP	<0.415
CLC6H5	<58.000
CLDAN	<0.760
CPMS	<1.080
CPMSO	<1.980
CPMSO2	10.600
CR	59.800
CU	18.400
DBCP	1.420
DCPD	414.000
DIMP	1590.000
DITH	10.800
DLDRN	3.480
DMDS	<1.160
DMMP	<15.200
ENDRN	0.512
ETC6H5	<128.000
FL	4430.000
HG	<0.359
ISODR	<0.280
K	12600.000
MEC6H5	<121.000
MG	279000.000
MIBK	<12.900
MXYLEN	<135.000
NA	838000.000
NIT	14.400
OXAT	2.910
PB	<18.600
PPDDE	<0.230
PPDDT	<0.295
SO4	832000.000
T12DCE	<120.000
TCLEE	<130.000
TRCLE	<110.000
XYLEN	<247.000
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23007
 AQUIFER: ALLUVIUM
 SCREENED INT.: 31.8- 41.8
 BEDROCK DEPTH: 41.4
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	6.060
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	208.000
CL	342000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	2.280
CPMSO	61.600
CPMSO2	4.790
CR	.
CU	.
DBCP	2.170
DCPD	<9.310
DIMP	197.000
DITH	<1.590
DLDRN	0.995
DMDS	<1.160
DMMP	<15.200
ENDRN	0.870
ETC6H5	<0.620
FL	1960.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	402000.000
T12DCE	<1.750
TCLEE	10.600
TRCLE	1.330
XYLEN	<1.340
ZN	.

WELL 23008
 AQUIFER: ALLUVIUM
 SCREENED INT.: 34.7- 44.7
 BEDROCK DEPTH: 44.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	2.870
CL	273000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.090
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2850.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	350000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23009
AQUIFER: ALLUVIUM
SCREENED INT.: 17.8- 22.8
BEDROCK DEPTH: 23.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	4.080
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	247000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	15.800
CR	.
CU	.
DBCP	<0.130
DCPD	11.200
DIMP	210.000
DITH	16.900
DLDRN	0.573
DMDS	<1.160
DMMP	<15.200
ENDRN	0.248
ETC6H5	<0.620
FL	3560.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	3.690
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	226000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 23010
AQUIFER: ALLUVIUM
SCREENED INT.: 16.0- 19.0
BEDROCK DEPTH: 19.0
BEDROCK LITH.: ST
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	4.080
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	289000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	15.900
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	1370.000
DITH	7.900
DLDRN	0.105
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	4220.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	2.500
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	379000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23011
 AQUIFER: ALLUVIUM
 SCREENED INT.: 19.5- 22.5
 BEDROCK DEPTH: 22.5
 BEDROCK LITH.: ST
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	2.720
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	599000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	3.220
CPMSO2	14.100
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	558.000
DITH	8.060
DLDRN	0.256
DMDS	<1.160
DMMP	<15.200
ENDRN	0.200
ETC6H5	<0.620
FL	3100.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	3.080
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	231000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 23029
 AQUIFER: ALLUVIUM
 SCREENED INT.: 13.2- 23.2
 BEDROCK DEPTH: 23.8
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	.
112TCE	.
11DCE	.
11DCLE	.
12DCLE	.
ALDRN	<0.083
AS	<2.500
BTZ	1.410
C6H6	.
CA	51300.000
CCL4	.
CD	<5.160
CH2CL2	.
CHCL3	.
CL	267000.000
CL6CP	<0.083
CLC6H5	.
CLDAN	<0.152
CPMS	30.100
CPMSO	12.700
CPMSO2	310.000
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	420.000
DITH	55.000
DLDRN	0.670
DMDS	8.470
DMMP	<15.200
ENDRN	0.421
ETC6H5	.
FL	3470.000
HG	<0.359
ISODR	<0.056
K	3620.000
MEC6H5	.
MG	20000.000
MIBK	<12.900
MXYLEN	.
NA	294000.000
NIT	179.000
OXAT	13.100
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	221000.000
T12DCE	.
TCLEE	.
TRCLE	.
XYLEN	.
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23033
 AQUIFER: ALLUVIUM
 SCREENED INT.: 23.7- 28.7
 BEDROCK DEPTH: 29.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	4.010
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	1320000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	161.000
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	681.000
DITH	32.300
DLDRN	0.188
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	3630.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	7.460
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	410000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	2.310
XYLEN	<1.340
ZN	.

WELL 23043
 AQUIFER: ALLUVIUM
 SCREENED INT.: 16.7- 20.7
 BEDROCK DEPTH: 23.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	238000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	34.000
CPMSO2	3.360
CR	.
CU	.
DBCP	0.270
DCPD	40.800
DIMP	15.000
DITH	<1.590
DLDRN	0.449
DMDS	<1.160
DMMP	<15.200
ENDRN	0.274
ETC6H5	<0.620
FL	2530.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	427000.000
T12DCE	<1.750
TCLEE	5.720
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23047 AQUIFER: ALLUVIUM
 SCREENED INT.: 21.9- 25.9
 BEDROCK DEPTH: 25.3
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	3.470
CL	348000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	3.770
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	69.900
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2730.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	857000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 23049 AQUIFER: ALLUVIUM
 SCREENED INT.: 38.4- 42.4
 BEDROCK DEPTH: 45.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<34.000
112TCE	<20.000
11DCE	<22.000
11DCLE	<24.000
12DCLE	143.000
ALDRN	<1.400
AS	45.200
BTZ	<2.000
C6H6	<26.800
CA	113000.000
CCL4	<48.000
CD	<5.160
CH2CL2	<100.000
CHCL3	10800.000
CL	5200000.000
CL6CP	<1.400
CLC6H5	<11.600
CLDAN	.
CPMS	<28.100
CPMSO	<4.200
CPMSO2	478.000
CR	<5.960
CU	<7.940
DBCP	0.275
DCPD	1200.000
DIMP	474.000
DITH	92.900
DLDRN	<1.200
DMDS	<1.800
DMMP	<76.000
ENDRN	<1.040
ETC6H5	<25.600
FL	<12200.000
HG	<0.480
ISODR	<1.200
K	33200.000
MEC6H5	<24.200
MG	178000.000
MIBK	<12.900
MXYLEN	<27.000
NA	2990000.000
NIT	310.000
OXAT	19.800
PB	<18.600
PPDDE	<1.060
PPDDT	<1.400
SO4	1350000.000
T12DCE	<24.000
TCLEE	43.100
TRCLE	<110.000
XYLEN	<49.400
ZN	34.700

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23050
AQUIFER: ALLUVIUM
SCREENED INT.: 46.4- 50.4
BEDROCK DEPTH: 48.8
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	3.100
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	1320000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	7.020
CPMSO2	145.000
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	1270.000
DITH	23.100
DLDRN	0.210
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	4040.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	6.390
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	412000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 23052
AQUIFER: ALLUVIUM
SCREENED INT.: 35.6- 39.6
BEDROCK DEPTH: 39.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	80.100
ALDRN	<0.083
AS	9.150
BTZ	12.800
C6H6	11.200
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	> 5930.000
CL	5910000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	125.000
CPMSO	<1.980
CPMSO2	647.000
CR	.
CU	.
DBCP	0.306
DCPD	264.000
DIMP	1510.000
DITH	74.300
DLDRN	1.110
DMDS	7.410
DMMP	<15.200
ENDRN	0.989
ETC6H5	<0.620
FL	13400.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	19.100
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	1940000.000
T12DCE	<1.750
TCLEE	34.300
TRCLE	13.500
XYLEN	1.490
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23053 AQUIFER: DENVER
 SCREENED INT.: 43.1- 47.1
 BEDROCK DEPTH: 43.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2 SH

COMPOUND	CONCENTRATION
111TCE	<85.000
112TCE	<1.000
11DCE	<1.100
11DCLE	2.110
12DCLE	<61.000
ALDRN	<0.083
AS	9.080
BTZ	5.010
C6H6	19.600
CA	1040000.000
CCL4	<120.000
CD	<5.160
CH2CL2	58.900
CHCL3	16500.000
CL	4750000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	94.300
CPMSO	<1.980
CPMSO2	520.000
CR	<5.960
CU	16.800
DBCP	1.690
DCPD	256.000
DIMP	1660.000
DITH	<79.500
DLDRN	2.060
DMDS	28.500
DMMP	156.000
ENDRN	1.220
ETC6H5	1.340
FL	7500.000
HG	<0.359
ISODR	<0.056
K	14500.000
MEC6H5	1.460
MG	449000.000
MIBK	<129.000
MXYLEN	<1.350
NA	1460000.000
NIT	<10.000
OXAT	17.200
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1280000.000
T12DCE	<1.200
TCLEE	37.900
TRCLE	7.650
XYLEN	<2.470
ZN	<20.100

WELL 23057 AQUIFER: ALLUVIUM
 SCREENED INT.: 41.6- 45.6
 BEDROCK DEPTH: 44.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	6.150
ALDRN	<0.083
AS	6.430
BTZ	1.770
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	198.000
CL	1980000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	12.700
CPMSO	19.600
CPMSO2	16.800
CR	.
CU	.
DBCP	<0.130
DCPD	165.000
DIMP	3070.000
DITH	33.000
DLDRN	0.478
DMDS	<1.160
DMMP	<15.200
ENDRN	0.321
ETC6H5	<0.620
FL	4440.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	12.100
PB	.
PPDDE	0.102
PPDDT	<0.059
SO4	521000.000
T12DCE	<1.750
TCLEE	38.400
TRCLE	4.640
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23058
 AQUIFER: ALLUVIUM
 SCREENED INT.: 39.1- 43.1
 BEDROCK DEPTH: 41.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.117
AS	.
BTZ	<1.140
C6H6	<1.340
CA	.
CCL4	<2.400
CD	.
CH2CL2	<5.000
CHCL3	<1.400
CL	.
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<21.600
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	.
HG	.
ISODR	<0.056
K	.
MEC6H5	<1.210
MG	.
MIBK	<12.900
MXYLEN	<1.350
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	.
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	.

WELL 23085
 AQUIFER: ALLUVIUM
 SCREENED INT.: 23.6- 27.0
 BEDROCK DEPTH: 29.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	2.780
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	370000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	4.940
CPMSO2	9.440
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	387.000
DITH	12.300
DLDRN	0.178
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	3310.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	3.810
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	185000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23095
 AQUIFER: ALLUVIUM
 SCREENED INT.: 44.3- 48.3
 BEDROCK DEPTH: 53.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

WELL 23096
 AQUIFER: ALLUVIUM
 SCREENED INT.: 27.0- 37.0
 BEDROCK DEPTH: 37.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<17.000
112TCE	<10.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	26.600
ALDRN	<0.700
AS	18.000
BTZ	<2.000
C6H6	<13.400
CA	345000.000
CCL4	<24.000
CD	<5.160
CH2CL2	<5.000
CHCL3	997.000
CL	5580000.000
CL6CP	<0.700
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	430.000
CR	15.200
CU	<7.940
DBCP	<0.130
DCPD	681.000
DIMP	788.000
DITH	66.300
DLDRN	<0.600
DMDS	<1.800
DMMP	<152.000
ENDRN	<0.520
ETC6H5	<1.280
FL	9690.000
HG	<0.480
ISODR	<0.600
K	48200.000
MEC6H5	8.110
MG	209000.000
MIBK	<12.900
MXYLEN	<1.350
NA	3320000.000
NIT	40.300
OXAT	11.700
PB	<18.600
PPDDE	<0.530
PPDDT	<0.700
SO4	1520000.000
T12DCE	<1.200
TCLEE	28.500
TRCLE	<110.000
XYLEN	<2.470
ZN	38.700

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	2.960
CD	.
CH2CL2	.
CHCL3	1560.000
CL	309000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	1.710
CPMSO	48.500
CPMSO2	<2.240
CR	.
CU	.
DBCP	4.590
DCPD	<9.310
DIMP	142.000
DITH	<1.590
DLDRN	1.090
DMDS	<1.160
DMMP	<30.400
ENDRN	1.330
ETC6H5	<0.620
FL	2700.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	412000.000
T12DCE	<1.750
TCLEE	32.900
TRCLE	1.790
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23102
 AQUIFER: ALLUVIUM
 SCREENED INT.: 32.7- 36.1
 BEDROCK DEPTH: 36.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

WELL 23106
 AQUIFER: DENVER
 SCREENED INT.: 34.4- 37.8
 BEDROCK DEPTH: 34.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2 SH

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	28.700
ALDRN	<0.083
AS	5.510
BTZ	4.300
C6H6	9.970
CA	.
CCL4	<1.690
CD	.
CH2CL2	17.500
CHCL3	3830.000
CL	2090000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	37.000
CPMSO	14.500
CPMSO2	122.000
CR	.
CU	.
DBCP	0.432
DCPD	272.000
DIMP	2660.000
DITH	67.400
DLDRN	0.639
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	4980.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	19.300
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	566000.000
T12DCE	<1.750
TCLEE	58.300
TRCLE	9.120
XYLEN	<1.340
ZN	.

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	47.800
ALDRN	<0.415
AS	4.590
BTZ	6.620
C6H6	7.470
CA	.
CCL4	<1.690
CD	.
CH2CL2	11.700
CHCL3	8760.000
CL	1900000.000
CL6CP	<0.415
CLC6H5	<1.360
CLDAN	<0.760
CPMS	49.200
CPMSO	91.300
CPMSO2	111.000
CR	.
CU	.
DBCP	5.570
DCPD	161.000
DIMP	1900.000
DITH	34.800
DLDRN	2.060
DMDS	<1.160
DMMP	<152.000
ENDRN	0.438
ETC6H5	<0.620
FL	4440.000
HG	.
ISODR	0.411
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	10.300
PB	.
PPDDE	<0.230
PPDDT	<0.295
SO4	612000.000
T12DCE	<1.750
TCLEE	50.100
TRCLE	4.380
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23108
 AQUIFER: ALLUVIUM
 SCREENED INT.: 36.5- 40.5
 BEDROCK DEPTH: 38.5
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	11.200
BTZ	<2.000
C6H6	<1.340
CA	127000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	629000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	0.176
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	2650.000
HG	<0.480
ISODR	<0.060
K	6590.000
MEC6H5	<1.210
MG	58500.000
MIBK	<12.900
MXYLEN	<1.350
NA	604000.000
NIT	1140.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	382000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 23118
 AQUIFER: ALLUVIUM
 SCREENED INT.: 13.5- 17.5
 BEDROCK DEPTH: 17.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	3.150
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	<1.880
CL	230000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	11.000
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	558.000
DITH	1.680
DLDRN	0.181
DMDS	<1.160
DMMP	<152.000
ENDRN	<0.060
ETC6H5	<0.620
FL	4800.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	0.065
PPDDT	<0.059
SO4	289000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23119 AQUIFER: ALLUVIUM
 SCREENED INT.: 14.0- 18.0
 BEDROCK DEPTH: 18.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	2.930
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	<1.880
CL	324000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	3.760
CPMSO2	11.000
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	1530.000
DITH	4.090
DLDRN	0.246
DMDS	<1.160
DMMP	<380.000
ENDRN	<0.060
ETC6H5	<0.620
FL	3670.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	1.660
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	437000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 23120 AQUIFER: ALLUVIUM
 SCREENED INT.: 13.5- 17.5
 BEDROCK DEPTH: 17.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	7.280
ALDRN	<0.083
AS	2.810
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	<1.880
CL	517000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	1.630
CPMSO	2.820
CPMSO2	25.200
CR	.
CU	.
DBCP	<0.130
DCPD	66.400
DIMP	966.000
DITH	33.100
DLDRN	<0.054
DMDS	<1.160
DMMP	<380.000
ENDRN	<0.060
ETC6H5	<0.620
FL	3190.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	6.610
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	272000.000
T12DCE	<1.750
TCLEE	2.830
TRCLE	3.210
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23123
AQUIFER: ALLUVIUM
SCREENED INT.: 20.0- 24.0
BEDROCK DEPTH: 23.0
BEDROCK LITH.: ST
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	5.120
ALDRN	<0.083
AS	2.810
BTZ	1.660
C6H6	7.590
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	3.890
CL	1020000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	21.400
CPMSO	18.300
CPMSO2	78.100
CR	.
CU	.
DBCP	0.191
DCPD	875.000
DIMP	580.000
DITH	33.600
DLDRN	0.355
DMDS	<1.160
DMMP	<304.000
ENDRN	<0.060
ETC6H5	<0.620
FL	3410.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	8.140
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	423000.000
T12DCE	<1.750
TCLEE	40.400
TRCLE	6.540
XYLEN	<1.340
ZN	.

WELL 23140
AQUIFER: ALLUVIUM
SCREENED INT.: 38.6- 54.6
BEDROCK DEPTH: 53.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	3.250
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	295000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	7.500
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	178.000
DITH	2.960
DLDRN	<0.054
DMDS	<1.160
DMMP	<76.000
ENDRN	<0.060
ETC6H5	<0.620
FL	5420.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	1.710
PB	.
P DE	<0.046
P I DT	<0.059
SO4	383000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23142
AQUIFER: ALLUVIUM
SCREENED INT.: 38.0- 59.4
BEDROCK DEPTH: 56.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	4.200
BTZ	<2.000
C6H6	<1.340
CA	112000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	518000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	6.210
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	1340.000
DITH	21.400
DLDRN	<0.060
DMDS	<1.800
DMMP	<380.000
ENDRN	<0.052
ETC6H5	<1.280
FL	2650.000
HG	<0.480
ISODR	<0.060
K	5840.000
MEC6H5	<1.210
MG	36100.000
MIBK	<12.900
MXYLEN	<1.350
NA	428000.000
NIT	<20.000
OXAT	4.100
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	271000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 23150
AQUIFER: ALLUVIUM
SCREENED INT.: 22.0- 30.0
BEDROCK DEPTH: 28.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	3.150
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	275000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.153
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	4060.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	0.047
PPDDT	<0.059
SO4	353000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23151
 AQUIFER: ALLUVIUM
 SCREENED INT.: 27.0- 35.0
 BEDROCK DEPTH: 34.2
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	<1.880
CL	294000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	6.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	270.000
DITH	2.060
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	3660.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	381000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 23160
 AQUIFER: ALLUVIUM
 SCREENED INT.: 22.0- 30.0
 BEDROCK DEPTH: 27.3
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	11.900
ALDRN	<0.083
AS	3.580
BTZ	1.960
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	<1.880
CL	1650000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	18.400
CPMSO	<1.980
CPMSO2	133.000
CR	.
CU	.
DBCP	<0.130
DCPD	380.000
DIMP	1200.000
DITH	58.500
DLDRN	0.838
DMDS	<1.160
DMMP	<380.000
ENDRN	<0.600
ETC6H5	<0.620
FL	4670.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	11.900
PB	.
PPDDE	0.103
PPDDT	<0.059
SO4	686000.000
T12DCE	<1.750
TCLEE	19.300
TRCLE	11.600
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23161
 AQUIFER: DENVER
 SCREENED INT.: 64.0- 74.0
 BEDROCK DEPTH: 24.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 3

WELL 23177
 AQUIFER: DENVER
 SCREENED INT.: 33.0- 53.0
 BEDROCK DEPTH: 14.5
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	167000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	41500.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	4470.000
MEC6H5	<1.210
MG	13000.000
MIBK	<12.900
MXYLEN	<1.350
NA	352000.000
NIT	42.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1040000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	70.500

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	296000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	2.030
CL	496000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	20.400
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	27.000
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1910.000
HG	<0.359
ISODR	<0.056
K	4100.000
MEC6H5	<1.210
MG	77400.000
MIBK	<12.900
MXYLEN	<1.350
NA	377000.000
NIT	3230.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1140000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23178 AQUIFER: ALLUVIUM
SCREENED INT.: 16.5- 26.5
BEDROCK DEPTH: 18.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	10.400
ALDRN	<0.083
AS	2.810
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	558000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	1.850
CPMSO	6.520
CPMSO2	23.500
CR	.
CU	.
DBCP	<0.130
DCPD	152.000
DIMP	681.000
DITH	27.100
DLDRN	<0.054
DMDS	<1.160
DMMP	<304.000
ENDRN	<0.060
ETC6H5	<0.620
FL	3030.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	5.740
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	343000.000
T12DCE	<1.750
TCLEE	6.530
TRCLE	3.430
XYLEN	<1.340
ZN	.

WELL 23179 AQUIFER: ALLUVIUM
SCREENED INT.: 17.0- 42.0
BEDROCK DEPTH: 42.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<170.000
112TCE	<1.000
11DCE	<1.100
11DCLE	3.370
12DCLE	<61.000
ALDRN	<0.830
AS	23.200
BTZ	<1.140
C6H6	<134.000
CA	612000.000
CCL4	<240.000
CD	<5.160
CH2CL2	129.000
CHCL3	> 19400.000
CL	4210000.000
CL6CP	<0.830
CLC6H5	<0.580
CLDAN	<1.520
CPMS	108.000
CPMSO	18.300
CPMSO2	958.000
CR	74.600
CU	10.500
DBCP	<0.130
DCPD	437.000
DIMP	908.000
DITH	54.800
DLDRN	<0.550
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.600
ETC6H5	2.140
FL	9010.000
HG	<0.359
ISODR	<0.560
K	23000.000
MEC6H5	4.570
MG	225000.000
MIBK	<12.900
MXYLEN	<1.350
NA	1760000.000
NIT	537.000
OXAT	17.500
PB	<18.600
PPDDE	<0.460
PPDDT	<0.590
SO4	1190000.000
T12DCE	<1.200
TCLEE	57.900
TRCLE	11.100
XYLEN	3.230
ZN	52.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23180
AQUIFER: DENVER
SCREENED INT.: 65.0- 70.0
BEDROCK DEPTH: 42.0
BEDROCK LITH.: SH
SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	.
BTZ	<1.140
C6H6	2.140
CA	.
CCL4	<2.400
CD	.
CH2CL2	<5.000
CHCL3	<1.400
CL	73300.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<1.210
MG	.
MIBK	<12.900
MXYLEN	<1.350
NA	.
NIT	1960.000
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	576000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	.

WELL 23181
AQUIFER: DENVER
SCREENED INT.: 85.0- 95.0
BEDROCK DEPTH: 42.0
BEDROCK LITH.: SH
SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	1.780
CA	45300.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	63800.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2270.000
MEC6H5	<1.210
MG	2050.000
MIBK	<12.900
MXYLEN	<1.350
NA	263000.000
NIT	3940.000
OXAT	<1.350
PB	40.700
PPDDE	<0.046
PPDDT	<0.059
SO4	539000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	534.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23182 AQUIFER: DENVER
SCREENED INT.: 28.0- 48.0
BEDROCK DEPTH: 18.0
BEDROCK LITH.: ST
SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	366000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	670000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	22.300
CU	11.200
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	3100.000
HG	<0.359
ISODR	<0.056
K	8640.000
MEC6H5	<1.210
MG	79700.000
MIBK	<12.900
MXYLEN	<1.350
NA	1080000.000
NIT	13600.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	2590000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 23183 AQUIFER: DENVER
SCREENED INT.: 85.0- 95.0
BEDROCK DEPTH: 18.0
BEDROCK LITH.: ST
SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	93700.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	483000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1300.000
HG	<0.359
ISODR	<0.056
K	3270.000
MEC6H5	<1.210
MG	3480.000
MIBK	<12.900
MXYLEN	<1.350
NA	655000.000
NIT	125.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	868000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23184
 AQUIFER: DENVER
 SCREENED INT.: 112.0-117.0
 BEDROCK DEPTH: 18.0
 BEDROCK LITH.: ST
 SCREENED ZONE: 5

WELL 23185
 AQUIFER: DENVER
 SCREENED INT.: 37.5- 42.5
 BEDROCK DEPTH: 34.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1 SH

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.117
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	38200.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	586000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<21.600
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1640.000
HG	<0.359
ISODR	<0.056
K	1790.000
MEC6H5	<1.210
MG	841.000
MIBK	<12.900
MXYLEN	<1.350
NA	376000.000
NIT	195.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	255000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	.
BTZ	<1.140
C6H6	<1.340
CA	669000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	1480000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	32.100
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	5060.000
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	3410.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<1.210
MG	78100.000
MIBK	<12.900
MXYLEN	<1.350
NA	914000.000
NIT	2580.000
OXAT	1.790
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1890000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	72.900

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23186
AQUIFER: DENVER
SCREENED INT.: 74.0- 89.0
BEDROCK DEPTH: 34.0
BEDROCK LITH.: SH
SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	343000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	233000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	31.300
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1550.000
HG	<0.359
ISODR	<0.056
K	6390.000
MEC6H5	<1.210
MG	25000.000
MIBK	<12.900
MXYLEN	<1.350
NA	675000.000
NIT	1610.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1770000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	131.000

WELL 23187
AQUIFER: DENVER
SCREENED INT.: 116.5-131.5
BEDROCK DEPTH: 34.0
BEDROCK LITH.: SH
SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	5.550
CA	125000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	398000.000
CL6CP	<0.169
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1260.000
HG	<0.359
ISODR	<0.056
K	4770.000
MEC6H5	<1.210
MG	3280.000
MIBK	<12.900
MXYLEN	<1.350
NA	509000.000
NIT	61.200
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	871000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	50.800

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23188
AQUIFER: ALLUVIUM
SCREENED INT.: 37.5- 47.5
BEDROCK DEPTH: 48.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	2.600
ALDRN	<0.332
AS	5.820
BTZ	<1.140
C6H6	<1.340
CA	511000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	2020000.000
CL6CP	<0.332
CLC6H5	<0.580
CLDAN	<0.608
CPMS	<1.080
CPMSO	<1.980
CPMSO2	252.000
CR	70.700
CU	<7.940
DBCP	<0.130
DCPD	18.800
DIMP	1140.000
DITH	42.700
DLDRN	0.372
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.240
ETC6H5	<1.280
FL	3640.000
HG	<0.359
ISODR	<0.224
K	13100.000
MEC6H5	<1.210
MG	234000.000
MIBK	<12.900
MXYLEN	<1.350
NA	898000.000
NIT	204.000
OXAT	8.390
PB	<18.600
PPDDE	<0.184
PPDDT	<0.236
SO4	856000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	5.840
XYLEN	<2.470
ZN	35.100

WELL 23189
AQUIFER: DENVER
SCREENED INT.: 57.5- 67.5
BEDROCK DEPTH: 48.0
BEDROCK LITH.: SH
SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	145000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	90000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	3860.000
MEC6H5	<1.210
MG	9540.000
MIBK	<12.900
MXYLEN	<1.350
NA	408000.000
NIT	28.100
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1160000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	34.300

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23190
 AQUIFER: DENVER
 SCREENED INT.: 102.5-107.5
 BEDROCK DEPTH: 48.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 3

WELL 23191
 AQUIFER: ALLUVIUM
 SCREENED INT.: 45.0- 55.0
 BEDROCK DEPTH: 54.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	24.600
CA	88800.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	93100.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1310.000
HG	<0.359
ISODR	<0.056
K	4160.000
MEC6H5	<1.210
MG	2740.000
MIBK	<12.900
MXYLEN	<1.350
NA	378000.000
NIT	2660.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	824000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	26.300

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.249
AS	3.940
BTZ	<1.140
C6H6	<1.340
CA	135000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	1060000.000
CL6CP	<0.249
CLC6H5	<0.580
CLDAN	<0.456
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<112.000
CR	15.500
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	395.000
DITH	13.000
DLDRN	0.230
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.180
ETC6H5	<1.280
FL	2210.000
HG	<0.359
ISODR	<0.168
K	7960.000
MEC6H5	<1.210
MG	60000.000
MIBK	<12.900
MXYLEN	<1.350
NA	714000.000
NIT	6020.000
OXAT	4.210
PB	<18.600
PPDDE	<0.138
PPDDT	<0.177
SO4	413000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	35.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23192 AQUIFER: DENVER
SCREENED INT.: 106.0-116.0
BEDROCK DEPTH: 54.0
BEDROCK LITH.: SH
SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.249
AS	<2.500
BTZ	<1.140
C6H6	14.600
CA	246000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	340000.000
CL6CP	<0.249
CLC6H5	<0.580
CLDAN	<0.456
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.165
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.180
ETC6H5	<1.280
FL	1360.000
HG	<0.359
ISODR	<0.168
K	6380.000
MEC6H5	<1.210
MG	7520.000
MIBK	<12.900
MXYLEN	<1.350
NA	621000.000
NIT	136.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.138
PPDDT	<0.177
SO4	1290000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	22.700

WELL 23193 AQUIFER: DENVER
SCREENED INT.: 164.0-169.0
BEDROCK DEPTH: 54.0
BEDROCK LITH.: SH
SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	34300.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	442000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	13.200
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	1.680
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1830.000
HG	<0.359
ISODR	<0.056
K	2650.000
MEC6H5	<1.210
MG	598.000
MIBK	<12.900
MXYLEN	<1.350
NA	289000.000
NIT	20000.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	82200.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23196
AQUIFER: ALLUVIUM
SCREENED INT.: 12.0- 22.0
BEDROCK DEPTH: 18.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	632000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	11.900
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	4170.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	1750000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 23197
AQUIFER: ALLUVIUM
SCREENED INT.: 13.0- 23.0
BEDROCK DEPTH: 19.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	<1.880
CL	383000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	17.000
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	3850.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	1520000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23198
 AQUIFER: ALLUVIUM
 SCREENED INT.: 15.0- 20.0
 BEDROCK DEPTH: 22.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	250000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	648.000
DITH	<1.590
DLDRN	0.075
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	3260.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	491000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 23200
 AQUIFER: DENVER
 SCREENED INT.: 73.5- 78.5
 BEDROCK DEPTH: 20.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	93100.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1070.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	309000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23201
 AQUIFER: DENVER
 SCREENED INT.: 84.5-104.5
 BEDROCK DEPTH: 20.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 4

WELL 23202
 AQUIFER: DENVER
 SCREENED INT.: 20.0- 25.0
 BEDROCK DEPTH: 16.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	95200.000
CL6CP	<0.083
CLC6H5	8.390
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1020.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	337000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	6.780
CL	447000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	322.000
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	3060.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	1370000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23203
 AQUIFER: DENVER
 SCREENED INT.: 27.0- 32.0
 BEDROCK DEPTH: 20.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	2.620
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	<1.880
CL	404000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	12.900
CPMSO2	3.280
CR	.
CU	.
DECP	<0.130
DCPD	96.400
DIMP	387.000
DITH	3.640
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	0.115
ETC6H5	<0.620
FL	2010.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	2.370
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	860000.000
T12DCE	<1.750
TCLEE	3.860
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 23204
 AQUIFER: DENVER
 SCREENED INT.: 29.0- 34.0
 BEDROCK DEPTH: 24.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	2.750
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	24.500
CL	262000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	7.230
CPMSO	47.300
CPMSO2	13.500
CR	.
CU	.
DECP	1.120
DCPD	49.900
DIMP	304.000
DITH	3.160
DLDRN	0.189
DMDS	<1.160
DMMP	<152.000
ENDRN	0.122
ETC6H5	<0.620
FL	<10000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	1190000.000
T12DCE	<1.750
TCLEE	22.100
TRCLE	1.590
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23205
 AQUIFER: ALLUVIUM
 SCREENED INT.: 10.0- 15.0
 BEDROCK DEPTH: 15.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	393000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	2.750
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	74.400
DITH	<1.590
DLDRN	0.073
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	4360.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	1400000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 23208
 AQUIFER: ALLUVIUM
 SCREENED INT.: 14.0- 19.0
 BEDROCK DEPTH: 19.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	3.860
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	320000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.103
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	4330.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	349000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23209 AQUIFER: DENVER
 SCREENED INT.: 70.0- 80.0
 BEDROCK DEPTH: 19.5
 BEDROCK LITH.: SH
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	73600.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	60400.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	.
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	3560.000
MEC6H5	<1.210
MG	5230.000
MIBK	.
MXYLEN	<1.350
NA	280000.000
NIT	66.700
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	290000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	33.100

WELL 23211 AQUIFER: ALLUVIUM
 SCREENED INT.: 20.5- 30.5
 BEDROCK DEPTH: 25.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	3.660
BTZ	<1.140
C6H6	3.350
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	333000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.415
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	4110.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	2.040
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	260000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 23218
 AQUIFER: DENVER
 SCREENED INT.: 47.3- 58.0
 BEDROCK DEPTH: 22.0
 BEDROCK LITH.:
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	12.200
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	4.500
CL	53800.000
CL6CP	<0.083
CLC6H5	48.900
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.230
CR	.
CU	.
DBCP	0.370
DCPD	<9.310
DIMP	<10.500
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	0.058
ETC6H5	<0.620
FL	<1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	548000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	4.430
XYLEN	<1.340
ZN	.

WELL 23219
 AQUIFER: DENVER
 SCREENED INT.: 63.3- 74.0
 BEDROCK DEPTH: 22.0
 BEDROCK LITH.:
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	3.300
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	<1.880
CL	80100.000
CL6CP	<0.083
CLC6H5	16.900
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.230
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	<1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	415000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	1.330
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL
24003

AQUIFER: ALLUVIUM
SCREENED INT.: 7.0- 22.0
BEDROCK DEPTH: 22.1
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	88600.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	2.830
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1600.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	317000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL
24008

AQUIFER: ALLUVIUM
SCREENED INT.: 41.0- 44.0
BEDROCK DEPTH: 44.0
BEDROCK LITH.: ST
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	3.250
CD	.
CH2CL2	<2.480
CHCL3	23.100
CL	110000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	3.780
CPMSO	32.300
CPMSO2	4.380
CR	.
CU	.
DBCP	1.960
DCPD	<9.310
DIMP	56.400
DITH	<1.590
DLDRN	1.200
DMDS	<1.160
DMMP	<15.200
ENDRN	0.824
ETC6H5	<0.620
FL	2640.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	802000.000
T12DCE	<1.750
TCLEE	12.400
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24013
AQUIFER: ALLUVIUM
SCREENED INT.: 13.7- 23.7
BEDROCK DEPTH: 23.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

WELL 24024
AQUIFER: ALLUVIUM
SCREENED INT.: 16.0- 21.0
BEDROCK DEPTH: 23.1
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	3.120
CL	99300.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	1.230
CPMSO	9.940
CPMSO2	<2.240
CR	.
CU	.
DBCP	0.282
DCPD	<9.310
DIMP	75.100
DITH	<1.590
DLDRN	0.266
DMDS	<1.160
DMMP	<15.200
ENDRN	0.191
ETC6H5	<0.620
FL	2630.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	509000.000
T12DCE	<1.750
TCLEE	3.120
TRCLE	<1.310
XYLEN	<1.340
ZN	.

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	7.450
CL	123000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	4.580
CPMSO	34.600
CPMSO2	6.130
CR	.
CU	.
DBCP	2.030
DCPD	<9.310
DIMP	120.000
DITH	<1.590
DLDRN	0.431
DMDS	<1.160
DMMP	<15.200
ENDRN	0.310
ETC6H5	<0.620
FL	2460.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	630000.000
T12DCE	<1.750
TCLEE	18.400
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL
24027

AQUIFER: ALLUVIUM
SCREENED INT.: 28.1- 32.1
BEDROCK DEPTH: 32.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	89800.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	42.200
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	1770.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDOE	<0.046
PPDDT	<0.059
SO4	434000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL
24049

AQUIFER: ALLUVIUM
SCREENED INT.: 44.2- 48.2
BEDROCK DEPTH: 50.0
BEDROCK LITH.: SS
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCF	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	3.640
C6H6	4.670
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	263.000
CL	298000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	0.306
CPMS	51.000
CPMSO	122.000
CPMSO2	60.800
CR	.
CU	.
DBCP	5.380
DCPD	135.000
DIMP	392.000
DITH	6.060
DLDRN	1.860
DMDS	<1.160
DMMP	<15.200
ENDRN	1.260
ETC6H5	<0.620
FL	2620.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	1.920
PB	.
PPDOE	<0.046
PPDDT	<0.059
SO4	582000.000
T12DCE	<1.750
TCLEE	<123.000
TRCLE	3.380
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24063
AQUIFER: DENVER
SCREENED INT.: 33.5- 37.5
BEDROCK DEPTH: 32.0
BEDROCK LITH.: SH
SCREENED ZONE: 2 SH

WELL 24081
AQUIFER: ALLUVIUM
SCREENED INT.: 31.1- 47.1
BEDROCK DEPTH: 35.0
BEDROCK LITH.: SS
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	4.060
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	74800.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	11.900
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	1200.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	307000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	2.280
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	16.800
CL	178000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	448.000
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2050.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	572000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24086 AQUIFER: DENVER
 SCREENED INT.: 33.9- 49.9
 BEDROCK DEPTH: 22.4
 BEDROCK LITH.: SS
 SCREENED ZONE: 1

WELL 24089 AQUIFER: DENVER
 SCREENED INT.: 30.2- 39.3
 BEDROCK DEPTH: 17.5
 BEDROCK LITH.: SH
 SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	142000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	169000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1470.000
HG	<0.359
ISODR	<0.056
K	1930.000
MEC6H5	<1.210
MG	47000.000
MIBK	<12.900
MXYLEN	<1.350
NA	193000.000
NIT	849.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	465000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	139000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	26.500
CL	101000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1280.000
HG	<0.359
ISODR	<0.056
K	2740.000
MEC6H5	<1.210
MG	34400.000
MIBK	<12.900
MXYLEN	<1.350
NA	134000.000
NIT	3100.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	411000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24092 AQUIFER: ALLUVIUM
 SCREENED INT.: 35.0- 45.0
 BEDROCK DEPTH: 47.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	165000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	89900.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	29.600
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1860.000
HG	<0.359
ISODR	<0.056
K	5270.000
MEC6H5	<1.210
MG	81100.000
MIBK	<12.900
MXYLEN	<1.350
NA	215000.000
NIT	2540.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1040000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	21.600

WELL 24094 AQUIFER: ALLUVIUM
 SCREENED INT.: 28.3- 40.3
 BEDROCK DEPTH: 36.8
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	105000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	1400.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	357000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24101
 AQUIFER: ALLUVIUM
 SCREENED INT.: 27.0- 35.0
 BEDROCK DEPTH: 32.3
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	1.550
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	1.410
C6H6	<1.920
CA	.
CCL4	5.290
CD	.
CH2CL2	<2.480
CHCL3	893.000
CL	178000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	9.800
CPMSO	68.800
CPMSO2	13.100
CR	.
CU	.
DBCP	5.120
DCPD	18.600
DIMP	157.000
DITH	1.860
DLDRN	1.060
DMDS	<1.160
DMMP	<30.400
ENDRN	1.330
ETC6H5	<0.620
FL	2540.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	735000.000
T12DCE	<1.750
TCLEE	40.100
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 24106
 AQUIFER: ALLUVIUM
 SCREENED INT.: 12.0- 20.0
 BEDROCK DEPTH: 16.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	85100.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	97000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	3.900
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1690.000
HG	<0.359
ISODR	<0.056
K	2480.000
MEC6H5	<1.210
MG	31300.000
MIBK	<12.900
MXYLEN	<1.350
NA	167000.000
NIT	281.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	338000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24107
 AQUIFER: ALLUVIUM
 SCREENED INT.: 27.0- 35.0
 BEDROCK DEPTH: 34.6
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	421000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	293000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	25.800
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2750.000
HG	<0.359
ISODR	<0.056
K	3620.000
MEC6H5	<1.210
MG	117000.000
MIBK	<12.900
MXYLEN	<1.350
NA	742000.000
NIT	2040.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	2620000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	92.800

WELL 24108
 AQUIFER: DENVER
 SCREENED INT.: 31.9- 39.9
 BEDROCK DEPTH: 22.5
 BEDROCK LITH.: SH
 SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	125000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	3160.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	1140000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24109
 AQUIFER: DENVER
 SCREENED INT.: 47.0- 55.0
 BEDROCK DEPTH: 12.8
 BEDROCK LITH.: SH
 SCREENED ZONE: 2 SH

WELL 24111
 AQUIFER: ALLUVIUM
 SCREENED INT.: 18.0- 30.0
 BEDROCK DEPTH: 22.7
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	34900.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	3180.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	2710000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	120000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	1.580
CL	162000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	224.000
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1590.000
HG	<0.359
ISODR	<0.056
K	2340.000
MEC6H5	<1.210
MG	40400.000
MIBK	<12.900
MXYLEN	<1.350
NA	223000.000
NIT	15200.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	517000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24112 AQUIFER: ALLUVIUM
 SCREENED INT.: 36.6- 50.0
 BEDROCK DEPTH: 37.6
 BEDROCK LITH.: ST
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	143000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	7.650
CL	121000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	3460.000
MEC6H5	<1.210
MG	36800.000
MIBK	<12.900
MXYLEN	<1.350
NA	153000.000
NIT	1620.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	411000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 24113 AQUIFER: ALLUVIUM
 SCREENED INT.: 37.0- 45.0
 BEDROCK DEPTH: 42.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	97000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	45700.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	13.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	3870.000
MEC6H5	<1.210
MG	32500.000
MIBK	<12.900
MXYLEN	<1.350
NA	145000.000
NIT	1660.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	119000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24115
 AQUIFER: ALLUVIUM
 SCREENED INT.: 22.0- 30.0
 BEDROCK DEPTH: 28.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	98800.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	0.157
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<30.400
ENDRN	0.064
ETC6H5	<0.620
FL	1180.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	319000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 24117
 AQUIFER: ALLUVIUM
 SCREENED INT.: 12.0- 20.0
 BEDROCK DEPTH: 18.8
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	16.800
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	88600.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1210.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	291000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24120 AQUIFER: DENVER
SCREENED INT.: 85.0- 95.0
BEDROCK DEPTH: 32.0
BEDROCK LITH.: SS
SCREENED ZONE: 3

WELL 24124 AQUIFER: DENVER
SCREENED INT.: 32.6- 40.6
BEDROCK DEPTH: 12.5
BEDROCK LITH.: SS
SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	159000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	209000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<21.600
DIMP	<10.500
DITH	<1.590
DLDRN	0.125
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1200.000
HG	<0.359
ISODR	<0.056
K	4150.000
MEC6H5	<1.210
MG	23400.000
MIBK	<12.900
MXYLEN	<1.350
NA	469000.000
NIT	389.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	812000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	35.200

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	55000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	50900.000
CL6CP	<0.169
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1870.000
HG	<0.359
ISODR	<0.056
K	<520.000
MEC6H5	<1.210
MG	38100.000
MIBK	<12.900
MXYLEN	<1.350
NA	211000.000
NIT	6370.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	457000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24127 AQUIFER: DENVER
 SCREENED INT.: 30.0- 35.0
 BEDROCK DEPTH: 27.4
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

WELL 24130 AQUIFER: DENVER
 SCREENED INT.: 25.0- 30.0
 BEDROCK DEPTH: 22.8
 BEDROCK LITH.: ST
 SCREENED ZONE: 2 SH

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	4.250
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	2.150
CA	191000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	104.000
CL	489000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	22.900
CPMSO	92.600
CPMSO2	25.800
CR	<5.960
CU	<7.940
DBCP	3.640
DCPD	169.000
DIMP	676.000
DITH	6.450
DLDRN	1.140
DMDS	<1.160
DMMP	<15.200
ENDRN	0.819
ETC6H5	<1.280
FL	1860.000
HG	<0.359
ISODR	<0.056
K	6660.000
MEC6H5	<1.210
MG	87900.000
MIBK	<12.900
MXYLEN	<1.350
NA	249000.000
NIT	173.000
OXAT	2.090
PB	<18.600
PPDDE	<0.046
PPDDT	0.066
SO4	563000.000
T12DCE	<1.200
TCLEE	70.100
TRCLE	12.100
XYLEN	<2.470
ZN	94.000

COMPOUND	CONCENTRATION
111TCE	<17.000
112TCE	<5.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	121000.000
CCL4	<24.000
CD	<5.160
CH2CL2	<5.000
CHCL3	78.400
CL	116000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	2.300
CPMSO	8.970
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	0.609
DCPD	<9.310
DIMP	107.000
DITH	<1.590
DLDRN	0.221
DMDS	<1.160
DMMP	<15.200
ENDRN	0.225
ETC6H5	<1.280
FL	2480.000
HG	<0.359
ISODR	<0.056
K	3580.000
MEC6H5	<1.210
MG	51500.000
MIBK	<12.900
MXYLEN	<1.350
NA	167000.000
NIT	3380.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	452000.000
T12DCE	<1.200
TCLEE	6.670
TRCLE	<5.500
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24135 AQUIFER: DENVER
 SCREENED INT.: 31.0- 35.0
 BEDROCK DEPTH: 25.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	22.000
CL	125000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	3.380
CPMSO	20.600
CPMSO2	3.840
CR	.
CU	.
DBCP	0.841
DCPD	<9.310
DIMP	134.000
DITH	<1.590
DLDRN	0.332
DMDS	<1.160
DMMP	<15.200
ENDRN	0.243
ETC6H5	<0.620
FL	2490.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	710000.000
T12DCE	<1.750
TCLEE	6.380
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 24136 AQUIFER: DENVER
 SCREENED INT.: 51.0- 64.0
 BEDROCK DEPTH: 25.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	4.260
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	40500.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	990.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	704000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24137
AQUIFER: DENVER
SCREENED INT.: 81.0-100.0
BEDROCK DEPTH: 25.0
BEDROCK LITH.: SS
SCREENED ZONE: 4

WELL 24158
AQUIFER: ALLUVIUM
SCREENED INT.: 9.0- 29.0
BEDROCK DEPTH: 29.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	34500.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	<1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	528000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	93800.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	120000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1420.000
HG	<0.359
ISODR	<0.056
K	4100.000
MEC6H5	<1.210
MG	42200.000
MIBK	<12.900
MXYLEN	<1.350
NA	152000.000
NIT	1920.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	297000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	107.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24159 AQUIFER: DENVER
 SCREENED INT.: 63.0-108.0
 BEDROCK DEPTH: 29.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.166
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	132000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	43000.000
CL6CP	<0.166
CLC6H5	<0.580
CLDAN	<0.304
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.110
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.120
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.112
K	2750.000
MEC6H5	<1.210
MG	15100.000
MIBK	<12.900
MXYLEN	<1.350
NA	116000.000
NIT	11.500
OXAT	<1.350
PB	<18.600
PPDDE	<0.092
PPDDT	<0.118
SO4	320000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 24161 AQUIFER: ALLUVIUM
 SCREENED INT.: 13.0- 18.0
 BEDROCK DEPTH: 17.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	1.320
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	4.690
CL	242000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	18.200
CPMSO	43.800
CPMSO2	9.870
CR	.
CU	.
DBCP	0.966
DCPD	24.400
DIMP	> 210.000
DITH	2.430
DLDRN	0.573
DMDS	<1.160
DMMP	<15.200
ENDRN	0.377
ETC6H5	<0.620
FL	2500.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	528000.000
T12DCE	<1.750
TCLEE	22.200
TRCLE	2.790
XYLEN	<1.40
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24162
 AQUIFER: ALLUVIUM
 SCREENED INT.: 11.0- 16.0
 BEDROCK DEPTH: 17.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	2.380
CL	285000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	3.380
CPMSO	4.960
CPMSO2	3.700
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	157.000
DITH	7.120
DLDRN	0.733
DMDS	<1.160
DMMP	<15.200
ENDRN	0.486
ETC6H5	<0.620
FL	2260.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	2.200
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	417000.000
T12DCE	<1.750
TCLEE	4.390
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 24163
 AQUIFER: ALLUVIUM
 SCREENED INT.: 9.0- 19.0
 BEDROCK DEPTH: 24.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	7.150
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	174000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2290.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	322000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24164
 AQUIFER: ALLUVIUM
 SCREENED INT.: 9.0- 19.0
 BEDROCK DEPTH: 20.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	174000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	3230.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	651000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 24166
 AQUIFER: ALLUVIUM
 SCREENED INT.: 16.0- 26.0
 BEDROCK DEPTH: 23.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	110000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.117
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1710.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	320000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24167
 AQUIFER: DENVER
 SCREENED INT.: 43.5- 53.5
 BEDROCK DEPTH: 22.5
 BEDROCK LITH.: ST
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	2.930
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	31700.000
CL6CP	<0.083
CLC6H5	10.500
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1170.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	76300.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 24168
 AQUIFER: DENVER
 SCREENED INT.: 73.5- 93.5
 BEDROCK DEPTH: 22.5
 BEDROCK LITH.: ST
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	4.020
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	44400.000
CL6CP	<0.083
CLC6H5	14.400
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	.
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	.
ENDRN	<0.060
ETC6H5	<0.620
FL	1090.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	42800.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24171 AQUIFER: DENVER
 SCREENED INT.: 40.0- 50.0
 BEDROCK DEPTH: 18.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	3.420
BTZ	<1.140
C6H6	5.710
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	27800.000
CL6CP	<0.083
CLC6H5	21.600
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.090
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2190.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	141000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 24172 AQUIFER: DENVER
 SCREENED INT.: 121.5-131.5
 BEDROCK DEPTH: 18.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 5

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	4.680
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	6.870
CL	34300.000
CL6CP	<0.083
CLC6H5	17.400
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	978.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	891000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24174
 AQUIFER: DENVER
 SCREENED INT.: 56.5- 61.5
 BEDROCK DEPTH: 21.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	15600.000
CL6CP	<0.083
CLC6H5	9.500
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	.
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	.
ENDRN	<0.060
ETC6H5	<0.620
FL	<1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	275000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 24175
 AQUIFER: DENVER
 SCREENED INT.: 90.0- 95.0
 BEDROCK DEPTH: 21.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	4.080
BTZ	<1.140
C6H6	3.980
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	15100.000
CL6CP	<0.083
CLC6H5	16.700
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	913.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	293000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLF	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24179 AQUIFER: ALLUVIUM
SCREENED INT.: 14.0- 24.0
BEDROCK DEPTH: 24.0
BEDROCK LITH.: SS
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	6.090
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	101000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	6.200
CPMSO	33.200
CPMSO2	7.150
CR	.
CU	.
DBCP	1.140
DCPD	10.700
DIMP	138.000
DITH	<1.590
DLDRN	1.740
DMDS	<1.160
DMMP	<15.200
ENDRN	1.470
ETC6H5	<0.620
FL	2340.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	457000.000
T12DCE	<1.750
TCLEE	16.700
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 24180 AQUIFER: ALLUVIUM
SCREENED INT.: 11.0- 16.0
BEDROCK DEPTH: 16.0
BEDROCK LITH.: SS
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<11.500
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	4.290
CD	.
CH2CL2	<2.480
CHCL3	433.000
CL	229000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	4.160
CPMSO	45.600
CPMSO2	5.520
CR	.
CU	.
DBCP	4.180
DCPD	<9.310
DIMP	227.000
DITH	<1.590
DLDRN	0.257
DMDS	<1.160
DMMP	<30.400
ENDRN	0.427
ETC6H5	<0.620
FL	2860.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	940000.000
T12DCE	<1.750
TCLEE	26.800
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24181
 AQUIFER: ALLUVIUM
 SCREENED INT.: 17.0- 27.0
 BEDROCK DEPTH: 24.0
 BEDROCK LITH.: ST
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	3.520
CL	119000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	3.670
CR	.
CU	.
DBCP	0.172
DCPD	<9.310
DIMP	26.400
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1970.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	488000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 24182
 AQUIFER: ALLUVIUM
 SCREENED INT.: 16.0- 26.0
 BEDROCK DEPTH: 22.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	103000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	8.710
CR	.
CU	.
DBCP	0.847
DCPD	<9.310
DIMP	20.900
DITH	<1.590
DLDRN	0.220
DMDS	<1.160
DMMP	<15.200
ENDRN	0.076
ETC6H5	<0.620
FL	1480.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	367000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24183 AQUIFER: ALLUVIUM
 SCREENED INT.: 11.0- 21.0
 BEDROCK DEPTH: 21.0
 BEDROCK LITH.: ST
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	203000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	3.690
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	2630.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	1370000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 24184 AQUIFER: DENVER
 SCREENED INT.: 18.0- 23.0
 BEDROCK DEPTH: 16.9
 BEDROCK LITH.: SS
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	2.110
CL	71400.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	18.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2220.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	305000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24185 AQUIFER: ALLUVIUM
 SCREENED INT.: 15.0- 25.0
 BEDROCK DEPTH: 25.0
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	83900.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.299
DMDS	<1.160
DMMP	<15.200
ENDRN	0.082
ETC6H5	<0.620
FL	1120.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	297000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 24186 AQUIFER: ALLUVIUM
 SCREENED INT.: 5.0- 15.0
 BEDROCK DEPTH: 12.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	13.900
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	2.540
CL	89200.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.159
DMDS	<1.160
DMMP	<30.400
ENDRN	0.086
ETC6H5	<0.620
FL	1270.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	252000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 24187
 AQUIFER: ALLUVIUM
 SCREENED INT.: 8.0- 18.0
 BEDROCK DEPTH: 17.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	88700.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	4.410
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1800.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	440000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 24188
 AQUIFER: ALLUVIUM
 SCREENED INT.: 7.0- 17.0
 BEDROCK DEPTH: 34.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	269000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	3.360
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	2880.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	1430000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL
24191

AQUIFER: DENVER
SCREENED INT.: 33.1- 44.0
BEDROCK DEPTH: 17.0
BEDROCK LITH.:
SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	80100.000
CL6CP	<0.083
CLC6H5	12.800
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.230
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	<1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	525000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL
25009

AQUIFER: DENVER
SCREENED INT.: 70.0-105.0
BEDROCK DEPTH: 34.0
BEDROCK LITH.: SS
SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	80400.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	27500.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	5380.000
MEC6H5	<1.210
MG	3660.000
MIBK	<12.900
MXYLEN	<1.350
NA	169000.000
NIT	.
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	421000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 25011 AQUIFER: ALLUVIUM
 SCREENED INT.: 10.0- 45.0
 BEDROCK DEPTH: 11.0
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	136000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	145000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	12.200
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1190.000
HG	<0.359
ISODR	<0.056
K	3270.000
MEC6H5	<1.210
MG	56500.000
MIBK	<12.900
MXYLEN	<1.350
NA	186000.000
NIT	5490.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	455000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 25013 AQUIFER: DENVER
 SCREENED INT.: 80.0- 95.0
 BEDROCK DEPTH: 11.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	30800.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	12100.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	1430.000
MEC6H5	<1.210
MG	1280.000
MIBK	<12.900
MXYLEN	<1.350
NA	145000.000
NIT	69.200
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	237000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	22.300

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 25014 AQUIFER: DENVER
 SCREENED INT.: 54.0- 64.0
 BEDROCK DEPTH: 11.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	5260.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	24300.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DECP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2370.000
HG	<0.359
ISODR	<0.056
K	745.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	103000.000
NIT	.
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	79700.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 25015 AQUIFER: ALLUVIUM
 SCREENED INT.: 31.0- 41.0
 BEDROCK DEPTH: 39.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	245000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	52000.000
CL6CP	<0.211
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DECP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1310.000
HG	<0.359
ISODR	<0.056
K	5380.000
MEC6H5	<1.210
MG	43500.000
MIBK	<12.900
MXYLEN	<1.350
NA	370000.000
NIT	2120.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1290000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	73.700

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 25016 AQUIFER: DENVER
 SCREENED INT.: 57.0- 63.5
 BEDROCK DEPTH: 39.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

WELL 25017 AQUIFER: DENVER
 SCREENED INT.: 72.0- 78.0
 BEDROCK DEPTH: 39.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	355000.000
CCL4	<2.400
CD	6.640
CH2CL2	<5.000
CHCL3	<1.400
CL	17800.000
CL6CP	<0.211
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	12.700
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1290.000
HG	<0.359
ISODR	<0.056
K	5750.000
MEC6H5	<1.210
MG	38500.000
MIBK	<12.900
MXYLEN	<1.350
NA	464000.000
NIT	151.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1580000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	44.400

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	88400.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	19300.000
CL6CP	<0.211
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4490.000
MEC6H5	<1.210
MG	4640.000
MIBK	<12.900
MXYLEN	<1.350
NA	282000.000
NIT	172.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	779000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 25018
 AQUIFER: ALLUVIUM
 SCREENED INT.: 23.0- 43.0
 BEDROCK DEPTH: 43.0
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

WELL 25021
 AQUIFER: DENVER
 SCREENED INT.: 122.0-142.0
 BEDROCK DEPTH: 43.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	138000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	146000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	212.000
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1460.000
HG	<0.359
ISODR	<0.056
K	3040.000
MEC6H5	<1.210
MG	46700.000
MIBK	<12.900
MXYLEN	<1.350
NA	207000.000
NIT	1910.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	480000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	15400.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	215000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1310.000
HG	<0.359
ISODR	<0.056
K	814.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	193000.000
NIT	10.800
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	116000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 25022
AQUIFER: ALLUVIUM
SCREENED INT.: 40.0- 50.0
BEDROCK DEPTH: 48.0
BEDROCK LITH.: LG
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	92300.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	31300.000
CL6CP	<0.211
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.085
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2300.000
HG	<0.359
ISODR	<0.056
K	3020.000
MEC6H5	<1.210
MG	36200.000
MIBK	<12.900
MXYLEN	<1.350
NA	110000.000
NIT	2810.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	405000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	21.300

WELL 25023
AQUIFER: DENVER
SCREENED INT.: 60.0- 65.0
BEDROCK DEPTH: 48.0
BEDROCK LITH.: LG
SCREENED ZONE: AL

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	37100.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	16100.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1310.000
HG	<0.359
ISODR	<0.056
K	2210.000
MEC6H5	<1.210
MG	12000.000
MIBK	<12.900
MXYLEN	<1.350
NA	80100.000
NIT	806.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	152000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	27.500

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 25038 AQUIFER: ALLUVIUM
 SCREENED INT.: 17.0- 27.0
 BEDROCK DEPTH: 28.3
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	98500.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	68400.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	3680.000
MEC6H5	<1.210
MG	29000.000
MIBK	<12.900
MXYLEN	<1.350
NA	105000.000
NIT	2320.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	254000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	53.200

WELL 25039 AQUIFER: DENVER
 SCREENED INT.: 48.0- 73.0
 BEDROCK DEPTH: 28.3
 BEDROCK LITH.: SH
 SCREENED ZONE: 1U

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	143000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	22500.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<16.200
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2560.000
MEC6H5	<1.210
MG	12500.000
MIBK	<12.900
MXYLEN	<1.350
NA	237000.000
NIT	79.200
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	682000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	23.200

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26006
 AQUIFER: ALLUVIUM
 SCREENED INT.: 29.0- 35.0
 BEDROCK DEPTH: 35.2
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	9.900
ALDRN	<0.083
AS	27.700
BTZ	1.370
C6H6	<1.340
CA	197000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	1.540
CL	733000.000
CL6CP	<0.211
CLC6H5	9.140
CLDAN	<0.152
CPMS	1.840
CPMSO	8.780
CPMSO2	840.000
CR	15.200
CU	<7.940
DBCP	0.397
DCPD	<9.310
DIMP	1040.000
DITH	144.000
DLDRN	1.010
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1930.000
HG	<0.359
ISODR	<0.056
K	5980.000
MEC6H5	<1.210
MG	68900.000
MIBK	<12.900
MXYLEN	<1.350
NA	665000.000
NIT	3420.000
OXAT	18.400
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	923000.000
T12DCE	<1.200
TCLEE	1.780
TRCLE	6.470
XYLEN	<2.470
ZN	33.800

WELL 26011
 AQUIFER: ALLUVIUM
 SCREENED INT.: 29.0- 43.5
 BEDROCK DEPTH: 43.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.117
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	308000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	1300000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	11.200
CR	25.500
CU	<7.940
DBCP	<0.130
DCPD	<21.600
DIMP	16.300
DITH	1.740
DLDRN	0.244
DMDS	<1.160
DMMP	<15.200
ENDRN	0.220
ETC6H5	<1.280
FL	2880.000
HG	<0.359
ISODR	<0.056
K	9400.000
MEC6H5	<1.210
MG	123000.000
MIBK	<12.900
MXYLEN	<1.350
NA	777000.000
NIT	1420.000
OXAT	1.660
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	534000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	73.500

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26015
 AQUIFER: ALLUVIUM
 SCREENED INT.: 48.0- 52.0
 BEDROCK DEPTH: 48.6
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	13.200
BTZ	<2.000
C6H6	<1.340
CA	202000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	1030000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	84.100
CR	<5.960
CU	12.600
DBCP	<0.130
DCPD	<9.310
DIMP	526.000
DITH	<1.760
DLDRN	<0.060
DMDS	<1.800
DMMP	<76.000
ENDRN	<0.052
ETC6H5	<1.280
FL	2720.000
HG	<0.480
ISODR	<0.060
K	9770.000
MEC6H5	<1.210
MG	70000.000
MIBK	<12.900
MXYLEN	<1.350
NA	729000.000
NIT	298.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	449000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	82.100

WELL 26017
 AQUIFER: ALLUVIUM
 SCREENED INT.: 43.6- 47.6
 BEDROCK DEPTH: 47.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	9.400
BTZ	<2.000
C6H6	<1.340
CA	114000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	547000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	14.600
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	174.000
DITH	3.310
DLDRN	<0.060
DMDS	<1.800
DMMP	<30.400
ENDRN	<0.052
ETC6H5	<1.280
FL	2370.000
HG	<0.480
ISODR	<0.060
K	6780.000
MEC6H5	<1.210
MG	49400.000
MIBK	<12.900
MXYLEN	<1.350
NA	519000.000
NIT	2380.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	314000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	70.300

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26019 AQUIFER: DENVER
 SCREENED INT.: 46.6- 50.6
 BEDROCK DEPTH: 46.5
 BEDROCK LITH.: SH
 SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	5.080
BTZ	<1.140
C6H6	<1.340
CA	113000.000
CCL4	<2.400
CD	<5.160
CHCL3	<1.400
CL	559000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	5.810
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	12.000
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2890.000
HG	<0.359
ISODR	<0.056
K	4740.000
MEC6H5	<1.210
MG	32800.000
MIBK	<12.900
MXYLEN	<1.350
NA	390000.000
NIT	4310.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	329000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	40.900

WELL 26020 AQUIFER: ALLUVIUM
 SCREENED INT.: 40.0- 44.0
 BEDROCK DEPTH: 43.7
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	.
BTZ	<2.000
C6H6	<1.340
CA	.
CCL4	<2.400
CH2CL2	<5.000
CHCL3	<1.400
CL	.
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	862.000
DITH	3.130
DLDRN	0.137
DMDS	<1.800
DMMP	<152.000
ENDRN	<0.052
ETC6H5	<1.280
FL	.
HG	.
ISODR	<0.060
K	.
MEC6H5	<1.210
MG	.
MIBK	<12.900
MXYLEN	<1.350
NA	.
NIT	.
OXAT	<2.000
PB	.
PPDDE	<0.053
PPDDT	<0.070
SO4	.
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26041 AQUIFER: DENVER
 SCREENED INT.: 42.9- 46.9
 BEDROCK DEPTH: 42.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1 SH

COMPOUND	CONCENTRATION
111TCE	<34.000
112TCE	<20.000
11DCE	<22.000
11DCLE	<24.000
12DCLE	109.000
ALDRN	<0.700
AS	410.000
BTZ	<40.000
C6H6	<26.800
CA	176000.000
CCL4	<48.000
CD	<5.160
CH2CL2	<100.000
CHCL3	<28.000
CL	28200000.000
CL6CP	<0.700
CLC6H5	<11.600
CLDAN	.
CPMS	<56.300
CPMSO	<84.000
CPMSO2	510.000
CR	24.400
CU	<7.940
DBCP	0.747
DCPD	16.600
DIMP	3810.000
DITH	45.500
DLDRN	<0.600
DMDS	8.100
DMMP	19700.000
ENDRN	<0.520
ETC6H5	<25.600
FL	223000.000
HG	<0.686
ISODR	<0.600
K	120000.000
MEC6H5	320.000
MG	699000.000
MIBK	<12.900
MXYLEN	<27.000
NA	3530000.000
NIT	106.000
OXAT	8.560
PB	<18.600
PPDDE	<0.530
PPDDT	<0.700
SO4	8490000.000
T12DCE	<24.000
TCLEE	<26.000
TRCLE	<22.000
XYLEN	<49.400
ZN	70.400

WELL 26057 AQUIFER: DENVER
 SCREENED INT.: 46.0- 50.0
 BEDROCK DEPTH: 18.3
 BEDROCK LITH.: SH
 SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	154000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	235000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	127.000
DITH	<1.590
DLDRN	0.097
DMDS	<1.160
DMMP	<15.200
ENDRN	0.062
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	5670.000
MEC6H5	<1.210
MG	28900.000
MIBK	<12.900
MXYLEN	<1.350
NA	391000.000
NIT	11400.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	747000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26058
AQUIFER: DENVER
SCREENED INT.: 82.9- 87.5
BEDROCK DEPTH: 25.0
BEDROCK LITH.: SS
SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	26300.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	8.790
CL	58000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	17.000
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1480.000
HG	<0.359
ISODR	<0.056
K	2020.000
MEC6H5	<1.210
MG	4150.000
MIBK	<12.900
MXYLEN	<1.350
NA	190000.000
NIT	<10.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	269000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 26061
AQUIFER: DENVER
SCREENED INT.: 47.8- 51.2
BEDROCK DEPTH: 27.5
BEDROCK LITH.: SH
SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.415
AS	5.440
BTZ	<1.140
C6H6	<1.340
CA	506000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	29.500
CL	1560000.000
CL6CP	<0.415
CLC6H5	<0.580
CLDAN	<0.760
CPMS	2.350
CPMSO	<1.980
CPMSO2	9.580
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	767.000
DITH	12.600
DLDRN	<0.275
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.300
ETC6H5	<1.280
FL	2420.000
HG	<0.359
ISODR	<0.280
K	4240.000
MEC6H5	<1.210
MG	155000.000
MIBK	<12.900
MXYLEN	<1.350
NA	365000.000
NIT	16.400
OXAT	8.920
PB	<18.600
PPDDE	<0.230
PPDDT	<0.295
SO4	428000.000
T12DCE	<1.200
TCLEE	1.540
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26066 AQUIFER: DENVER
 SCREENED INT.: 49.0- 61.0
 BEDROCK DEPTH: 34.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	6.760
BTZ	<1.140
C6H6	4.820
CA	1040000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	3200000.000
CL6CP	<0.083
CLC6H5	8.620
CLDAN	<0.152
CPMS	2.500
CPMSO	<1.980
CPMSO2	<2.240
CR	70.700
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	116.000
DITH	263.000
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	3530.000
HG	<0.359
ISODR	<0.056
K	9550.000
MEC6H5	<1.210
MG	276000.000
MIBK	<12.900
MXYLEN	<1.350
NA	615000.000
NIT	108.000
OXAT	49.500
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	689000.000
T12DCE	<1.200
TCLEE	5.700
TRCLE	3.980
XYLEN	<2.470
ZN	<20.100

WELL 26067 AQUIFER: DENVER
 SCREENED INT.: 99.0-107.0
 BEDROCK DEPTH: 34.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	63600.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	166000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	<520.000
MEC6H5	<1.210
MG	2370.000
MIBK	<12.900
MXYLEN	<1.350
NA	332000.000
NIT	<10.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	474000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	28.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26071
 AQUIFER: DENVER
 SCREENED INT.: 46.0- 54.0
 BEDROCK DEPTH: 39.0
 BEDROCK LITH.: ST
 SCREENED ZONE: 1

WELL 26072
 AQUIFER: DENVER
 SCREENED INT.: 92.0-104.0
 BEDROCK DEPTH: 39.0
 BEDROCK LITH.: ST
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	9.370
BTZ	<1.140
C6H6	<1.340
CA	131000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	1.990
CL	519000.000
CL6CP	<0.083
CLC6H5	1.740
CLDAN	<0.152
CPMS	5.980
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	5230.000
DITH	19.800
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1370.000
HG	<0.359
ISODR	<0.056
K	5510.000
MEC6H5	<1.210
MG	39100.000
MIBK	<12.900
MXYLEN	<1.350
NA	458000.000
NIT	<10.000
OXAT	7.640
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	513000.000
T12DCE	<1.200
TCLEE	5.330
TRCLE	<1.100
XYLEN	<2.470
ZN	32.400

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	36800.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	108000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	1330.000
MEC6H5	<1.210
MG	1720.000
MIBK	<12.900
MXYLEN	<1.350
NA	255000.000
NIT	<10.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	279000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	23.800

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26073
 AQUIFER: ALLUVIUM
 SCREENED INT.: 46.2- 50.2
 BEDROCK DEPTH: 49.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	8.000
BTZ	<2.000
C6H6	2.320
CA	211000.000
CCL4	6.140
CD	<5.160
CH2CL2	<5.000
CHCL3	15.400
CL	178000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.208
DMDS	<1.800
DMMP	18.100
ENDRN	<0.052
ETC6H5	<1.280
FL	1700.000
HG	<0.480
ISODR	<0.060
K	5460.000
MEC6H5	<1.210
MG	50100.000
MIBK	<12.900
MXYLEN	<1.350
NA	216000.000
NIT	4290.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	724000.000
T12DCE	<1.200
TCLEE	1.320
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 26075
 AQUIFER: DENVER
 SCREENED INT.: 88.5- 99.5
 BEDROCK DEPTH: 49.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	64700.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	5.180
CL	38000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	.
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2650.000
MEC6H5	<1.210
MG	5520.000
MIBK	.
MXYLEN	<1.350
NA	263000.000
NIT	<10.000
OXAT	<1.350
PB	24.700
PPDDE	<0.046
PPDDT	<0.059
SO4	332000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	69.800

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26076 AQUIFER: ALLUVIUM
SCREENED INT.: 25.4- 32.5
BEDROCK DEPTH: 32.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	.
BTZ	<1.140
C6H6	<1.340
CA	.
CCL4	<2.400
CD	.
CH2CL2	<5.000
CHCL3	<1.400
CL	.
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	386.000
DITH	<1.590
DLDRN	0.093
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	.
HG	.
ISODR	<0.056
K	.
MEC6H5	<1.210
MG	.
MIBK	<12.900
MXYLEN	<1.350
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	.
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	.

WELL 26083 AQUIFER: ALLUVIUM
SCREENED INT.: 17.0- 27.0
BEDROCK DEPTH: 24.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	9.940
BTZ	<1.140
C6H6	<1.340
CA	40100.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	296000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.454
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	3820.000
HG	<0.359
ISODR	<0.056
K	4760.000
MEC6H5	<1.210
MG	17600.000
MIBK	<12.900
MXYLEN	<1.350
NA	381000.000
NIT	4280.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	275000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	53.500

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26084 AQUIFER: DENVER
 SCREENED INT.: 70.0- 82.0
 BEDROCK DEPTH: 24.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	111000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	130000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	3310.000
MEC6H5	<1.210
MG	5780.000
MIBK	<12.900
MXYLEN	<1.350
NA	419000.000
NIT	24.500
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	939000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 26085 AQUIFER: ALLUVIUM
 SCREENED INT.: 22.9- 32.1
 BEDROCK DEPTH: 32.5
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.700
AS	28.400
BTZ	<2.000
C6H6	<1.340
CA	504000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	24.200
CL	1740000.000
CL6CP	<0.700
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<5.350
CPMSO2	<22.000
CR	<5.960
CU	<7.940
DBCP	0.214
DCPD	<9.310
DIMP	104.000
DITH	<1.100
DLDRN	<0.600
DMDS	<1.800
DMMP	<30.400
ENDRN	<0.520
ETC6H5	<1.280
FL	2920.000
HG	<0.480
ISODR	<0.600
K	8270.000
MEC6H5	<1.210
MG	181000.000
MIBK	<12.900
MXYLEN	<1.350
NA	648000.000
NIT	1410.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.530
PPDDT	<0.700
SO4	917000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	8.690
XYLEN	<2.470
ZN	40.900

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26086 AQUIFER: DENVER
SCREENED INT.: 64.0- 74.0
BEDROCK DEPTH: 32.5
BEDROCK LITH.: SS
SCREENED ZONE: 1

WELL 26088 AQUIFER: ALLUVIUM
SCREENED INT.: 32.0- 36.0
BEDROCK DEPTH: 33.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	6.470
BTZ	1.620
C6H6	<1.340
CA	245000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	802000.000
CL6CP	<0.083
CLC6H5	3.810
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	17.100
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	286.000
DITH	23.900
DLDRN	0.121
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1490.000
HG	<0.359
ISODR	<0.056
K	3090.000
MEC6H5	<1.210
MG	53600.000
MIBK	<12.900
MXYLEN	<1.350
NA	279000.000
NIT	660.000
OXAT	3.090
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	331000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	25.300

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	515000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	16.100
CL	361000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	12.700
DITH	<1.590
DLDRN	0.456
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1960.000
HG	<0.359
ISODR	<0.056
K	5220.000
MEC6H5	<1.210
MG	158000.000
MIBK	<12.900
MXYLEN	<1.350
NA	368000.000
NIT	4580.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	177000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26127
AQUIFER: ALLUVIUM
SCREENED INT.: 41.1- 44.5
BEDROCK DEPTH: 43.0
BEDROCK LITH.: SS
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	5.100
BTZ	<2.000
C6H6	<1.340
CA	374000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	901000.000
CL6CP	<0.070
CLC6H5	1.040
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	1760.000
DITH	44.300
DLDRN	0.106
DMDS	<1.800
DMMP	<380.000
ENDRN	<0.052
ETC6H5	<1.280
FL	1500.000
HG	<0.480
ISODR	<0.060
K	4340.000
MEC6H5	<1.210
MG	79400.000
MIBK	<12.900
MXYLEN	<1.350
NA	282000.000
NIT	1560.000
OXAT	4.710
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	411000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 26129
AQUIFER: DENVER
SCREENED INT.: 90.0-100.0
BEDROCK DEPTH: 43.0
BEDROCK LITH.: SS
SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	6.450
BTZ	<1.140
C6H6	4.500
CA	274000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	890000.000
CL6CP	<0.083
CLC6H5	0.790
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	16.300
CU	<7.940
DBCP	<0.130
DCPD	<16.200
DIMP	214.000
DITH	89.100
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1440.000
HG	<0.359
ISODR	<0.056
K	3770.000
MEC6H5	<1.210
MG	34100.000
MIBK	<12.900
MXYLEN	<1.350
NA	425000.000
NIT	11.400
OXAT	12.800
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	379000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26133
 AQUIFER: ALLUVIUM
 SCREENED INT.: 35.0- 55.0
 BEDROCK DEPTH: 40.5
 BEDROCK LITH.: ST
 SCREENED ZONE: ALLUVIUM

WELL 26140
 AQUIFER: DENVER
 SCREENED INT.: 59.0- 78.0
 BEDROCK DEPTH: 48.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<340.000
112TCE	<1.000
11DCE	<1.100
11DCLE	8.840
12DCLE	<122.000
ALDRN	<1.660
AS	24.600
BTZ	<1.140
C6H6	508.000
CA	308000.000
CCL4	<480.000
CD	<5.160
CH2CL2	<1000.000
CHCL3	> 38800.000
CL	2440000.000
CL6CP	<1.660
CLC6H5	28.500
CLDAN	<3.040
CPMS	748.000
CPMSO	26.800
CPMSO2	1280.000
CR	37.300
CU	<7.940
DBCP	35.400
DCPD	703.000
DIMP	1170.000
DITH	37.800
DLDRN	> 0.380
DMDS	1.580
DMMP	> 305.000
ENDRN	<1.200
ETC6H5	7.780
FL	<30500.000
HG	<0.359
ISODR	<1.120
K	20800.000
MEC6H5	<242.000
MG	144000.000
MIBK	172.000
MXYLEN	> 8.930
NA	1380000.000
NIT	464.000
OXAT	15.400
PB	<18.600
PPDDE	<0.920
PPDDT	<1.180
SO4	7840000.000
T12DCE	3.100
TCLEE	926.000
TRCLE	68.700
XYLEN	<494.000
ZN	211.000

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	0.133
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	264000.000
CCL4	<2.400
CD	8.700
CH2CL2	<5.000
CHCL3	16.500
CL	744000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	19.100
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.411
DMDS	<1.160
DMMP	<15.200
ENDRN	> 0.057
ETC6H5	<1.280
FL	1300.000
HG	<0.359
ISODR	<0.056
K	4100.000
MEC6H5	<1.210
MG	64800.000
MIBK	<12.900
MXYLEN	<1.350
NA	265000.000
NIT	.
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	315000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	89.300

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 26142
AQUIFER: DENVER
SCREENED INT.: 138.0-146.0
BEDROCK DEPTH: 48.0
BEDROCK LITH.: SH
SCREENED ZONE: 3 SH

WELL 26147
AQUIFER: DENVER
SCREENED INT.: 85.0-105.0
BEDROCK DEPTH: 29.5
BEDROCK LITH.: SH
SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	24400.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	53500.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	1.230
DMDS	<1.160
DMMP	<15.200
ENDRN	0.162
ETC6H5	<1.280
FL	1760.000
HG	<0.359
ISODR	<0.056
K	1740.000
MEC6H5	<1.210
MG	2190.000
MIBK	<12.900
MXYLEN	<1.350
NA	169000.000
NIT	51.400
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	227000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	110000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	214000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	2500.000
MEC6H5	<1.210
MG	5790.000
MIBK	<12.900
MXYLEN	<1.350
NA	388000.000
NIT	<10.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	803000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27001
 AQUIFER: ALLUVIUM
 SCREENED INT.: 30.4- 46.4
 BEDROCK DEPTH: 48.6
 BEDROCK LITH.: ST
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	70400.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.135
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	<1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	52400.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 27002
 AQUIFER: ALLUVIUM
 SCREENED INT.: 37.0- 63.5
 BEDROCK DEPTH: 69.7
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	24.800
CL	357000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.370
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1160.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	112000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27003 AQUIFER: ALLUVIUM
SCREENED INT.: 48.8- 59.7
BEDROCK DEPTH: 60.3
BEDROCK LITH.: ST
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	66400.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.132
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	<1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	61700.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 27005 AQUIFER: ALLUVIUM
SCREENED INT.: 39.5- 43.5
BEDROCK DEPTH: 43.5
BEDROCK LITH.: SS
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	70500.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	103000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	20.800
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	814.000
MEC6H5	<1.210
MG	13900.000
MIBK	<12.900
MXYLEN	<1.350
NA	81000.000
NIT	221.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	51700.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	27.500

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27016 AQUIFER: ALLUVIUM
SCREENED INT.: 21.0- 25.0
BEDROCK DEPTH: 25.0
BEDROCK LITH.: ST
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	12.000
BTZ	<2.000
C6H6	<1.340
CA	46700.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	608000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	12.900
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	3070.000
HG	<0.480
ISODR	<0.060
K	3030.000
MEC6H5	<1.210
MG	19000.000
MIBK	<12.900
MXYLEN	<1.350
NA	561000.000
NIT	1210.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	375000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 27024 AQUIFER: ALLUVIUM
SCREENED INT.: 36.0- 40.0
BEDROCK DEPTH: 40.0
BEDROCK LITH.: ST
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	3.150
ALDRN	<0.083
AS	17.300
BTZ	.
C6H6	.
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	4.180
CL	789000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCF	0.371
DCPD	<9.310
DIMP	12.900
DITH	.
DLDRN	0.291
DMDS	.
DMMP	<15.200
ENDRN	0.329
ETC6H5	.
FL	2750.000
HG	.
ISODR	<0.056
K	.
MEC6H5	.
MG	.
MIBK	<12.900
MXYLEN	.
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	618000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	5.010
XYLEN	.
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27026
AQUIFER: ALLUVIUM
SCREENED INT.: 28.0- 32.0
BEDROCK DEPTH: 32.0
BEDROCK LITH.: ST
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	4.940
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	22.800
CL	777000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	0.146
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.099
DMDS	.
DMMP	<15.200
ENDRN	0.154
ETC6H5	<0.620
FL	2510.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	293000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 27028
AQUIFER: ALLUVIUM
SCREENED INT.: 27.6- 31.6
BEDROCK DEPTH: 36.5
BEDROCK LITH.: ST
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	20.300
CL	237000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.804
DMDS	.
DMMP	<15.200
ENDRN	0.184
ETC6H5	<0.620
FL	2310.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	172000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27030
 AQUIFER: ALLUVIUM
 SCREENED INT.: 38.0- 42.0
 BEDROCK DEPTH: 42.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	15.900
CL	187000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	> 1.740
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1860.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	154000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 27031
 AQUIFER: ALLUVIUM
 SCREENED INT.: 39.0- 43.0
 BEDROCK DEPTH: 43.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	25.500
CL	178000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.139
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1510.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	149000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27040
AQUIFER: ALLUVIUM
SCREENED INT.: 31.9- 35.3
BEDROCK DEPTH: 33.8
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

WELL 27049
AQUIFER: DENVER
SCREENED INT.: 61.5- 65.0
BEDROCK DEPTH: 37.2
BEDROCK LITH.: SH
SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	3.840
ALDRN	0.516
AS	19.700
BTZ	<1.140
C6H6	<1.340
CA	200000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	2.940
CL	1030000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	6.440
CPMSO2	<2.240
CR	19.600
CU	<7.940
DBCP	0.403
DCPD	<9.310
DIMP	36.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1990.000
HG	<0.359
ISODR	0.291
K	7090.000
MEC6H5	<1.210
MG	71900.000
MIBK	<12.900
MXYLEN	<1.350
NA	509000.000
NIT	2430.000
OXAT	2.840
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	659000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	7.500
XYLEN	<2.470
ZN	<20.100

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	113000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	19.400
CL	403000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.136
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1470.000
HG	<0.359
ISODR	<0.056
K	3620.000
MEC6H5	<1.210
MG	34300.000
MIBK	<12.900
MXYLEN	<1.350
NA	234000.000
NIT	3280.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	237000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	3.520
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27051
 AQUIFER: ALLUVIUM
 SCREENED INT.: 33.8- 53.0
 BEDROCK DEPTH: 54.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	83000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	7.650
CL	224000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1500.000
HG	<0.359
ISODR	<0.056
K	2270.000
MEC6H5	<1.210
MG	31500.000
MIBK	<12.900
MXYLEN	<1.350
NA	248000.000
NIT	3450.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	210000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 27053
 AQUIFER: ALLUVIUM
 SCREENED INT.: 51.7- 66.7
 BEDROCK DEPTH: 66.7
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	74200.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	98900.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	10.600
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	5370.000
MEC6H5	<1.210
MG	13900.000
MIBK	<12.900
MXYLEN	<1.350
NA	86900.000
NIT	353.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	45800.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<101.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27054
AQUIFER: DENVER
SCREENED INT.: 90.0-105.0
BEDROCK DEPTH: 66.7
BEDROCK LITH.: SH
SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<17.000
112TCE	<5.000
11DCE	<1.100
11DCLE	<12.000
12DCLE	<6.100
ALDRN	.
AS	.
BTZ	.
C6H6	<1.340
CA	.
CCL4	<24.000
CD	.
CH2CL2	<5.000
CHCL3	<14.000
CL	.
CL6CP	.
CLC6H5	<0.580
CLDAN	.
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	.
DMDS	.
DMMP	<15.200
ENDRN	.
ETC6H5	<1.280
FL	.
HG	.
ISODR	.
K	.
MEC6H5	2.170
MG	.
MIBK	<12.900
MXYLEN	<1.350
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	.
PPDDT	.
SO4	.
T12DCE	<12.000
TCLEE	<1.300
TRCLE	1.240
XYLEN	<2.470
ZN	.

WELL 27055
AQUIFER: DENVER
SCREENED INT.: 120.0-135.0
BEDROCK DEPTH: 66.7
BEDROCK LITH.: SH
SCREENED ZONE: 5

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	4760.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	<4800.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	39.400
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2580.000
HG	<0.359
ISODR	<0.056
K	7410.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	63400.000
NIT	927.000
OXAT	<1.350
PB	26.200
PPDDE	<0.046
PPDDT	<0.059
SO4	<10000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<101.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27057 AQUIFER: DENVER
 SCREENED INT.: 57.0- 62.0
 BEDROCK DEPTH: 44.2
 BEDROCK LITH.: SS
 SCREENED ZONE: 3

WELL 27062 AQUIFER: ALLUVIUM
 SCREENED INT.: 28.6- 43.6
 BEDROCK DEPTH: 44.6
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	46900.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	48500.000
CL6CP	<0.169
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.103
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2650.000
MEC6H5	<1.210
MG	4630.000
MIBK	<12.900
MXYLEN	<1.350
NA	207000.000
NIT	16200.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	265000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<101.000

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	0.725
ALDRN	<0.083
AS	9.510
BTZ	<1.140
C6H6	<1.340
CA	198000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	16.500
CL	934000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	4.850
CPMSO2	<2.240
CR	23.700
CU	<7.940
DBCP	0.258
DCPD	<9.310
DIMP	30.400
DITH	<1.590
DLDRN	0.216
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1970.000
HG	<0.359
ISODR	<0.056
K	2340.000
MEC6H5	<1.210
MG	56200.000
MIBK	<12.900
MXYLEN	<1.350
NA	412000.000
NIT	4800.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	434000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	2.160
XYLEN	<2.470
ZN	119.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27063 AQUIFER: ALLUVIUM
 SCREENED INT.: 40.0- 60.0
 BEDROCK DEPTH: 60.8
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.166
AS	5.440
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	22.800
CL	698000.000
CL6CP	<0.166
CLC6H5	<1.360
CLDAN	<0.304
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	0.215
DCPD	<9.310
DIMP	13.900
DITH	.
DLDRN	0.277
DMDS	.
DMMP	<15.200
ENDRN	<0.120
ETC6H5	<0.620
FL	2640.000
HG	.
ISODR	<0.112
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.092
PPDDT	<0.118
SO4	333000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 27064 AQUIFER: ALLUVIUM
 SCREENED INT.: 44.6- 64.6
 BEDROCK DEPTH: 62.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	26.100
CL	256000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	1.590
DLDRN	1.350
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1720.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	194000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27068 AQUIFER: ALLUVIUM
SCREENED INT.: 45.0- 65.0
BEDROCK DEPTH: 65.2
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.523
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	46.000
CL	359000.000
CL6CP	<0.523
CLC6H5	<1.360
CLDAN	<0.958
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	<0.347
DMDS	.
DMMP	<15.200
ENDRN	<0.378
ETC6H5	<0.620
FL	1440.000
HG	.
ISODR	<0.353
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.290
PPDDT	<0.372
SO4	154000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 27071 AQUIFER: ALLUVIUM
SCREENED INT.: 45.0- 65.0
BEDROCK DEPTH: 65.2
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	28.000
CL	211000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.158
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1080.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	107000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27072
AQUIFER: ALLUVIUM
SCREENED INT.: 45.0- 65.0
BEDROCK DEPTH: 63.0
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	7.720
CL	166000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	<0.054
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	<1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	71500.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 27073
AQUIFER: ALLUVIUM
SCREENED INT.: 43.8- 53.8
BEDROCK DEPTH: 54.0
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	53.300
CL	364000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.117
DMDS	.
DMMP	<15.200
ENDRN	0.323
ETC6H5	<0.620
FL	1340.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	0.069
SO4	150000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27074
AQUIFER: ALLUVIUM
SCREENED INT.: 28.3- 48.3
BEDROCK DEPTH: 48.5
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	108000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	27.000
CL	339000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.180
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1250.000
HG	<0.359
ISODR	<0.056
K	5220.000
MEC6H5	<1.210
MG	30100.000
MIBK	<12.900
MXYLEN	<1.350
NA	199000.000
NIT	20700.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	159000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 27075
AQUIFER: ALLUVIUM
SCREENED INT.: 39.5- 59.5
BEDROCK DEPTH: 60.6
BEDROCK LITH.: SS
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	26.100
CL	234000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	.
DLDRN	0.383
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1810.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	199000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27076 AQUIFER: ALLUVIUM
 SCREENED INT.: 50.0- 60.0
 BEDROCK DEPTH: 61.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	6.710
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	23.300
CL	693000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	0.182
DCPD	<9.310
DIMP	14.500
DITH	.
DLDRN	0.115
DMDS	.
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2510.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	312000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 27077 AQUIFER: ALLUVIUM
 SCREENED INT.: 34.9- 54.9
 BEDROCK DEPTH: 57.2
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	9.120
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	18.900
CL	690000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	0.253
DCPD	<9.310
DIMP	17.800
DITH	.
DLDRN	<0.054
DMDS	.
DMMP	<15.200
ENDRN	0.212
ETC6H5	<0.620
FL	2930.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	404000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	2.070
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 27078 AQUIFER: ALLUVIUM
SCREENED INT.: 40.2- 50.2
BEDROCK DEPTH: 50.6
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	14.500
BTZ	.
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	813000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	0.214
DCPD	<9.310
DIMP	.
DITH	.
DLDRN	<0.054
DMDS	.
DMMP	.
ENDRN	<0.060
ETC6H5	<0.620
FL	3250.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	487000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	1.430
XYLEN	<1.340
ZN	.

WELL 28022 AQUIFER: ALLUVIUM
SCREENED INT.: 47.8- 51.2
BEDROCK DEPTH: 52.8
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	78000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	14.800
CL	31800.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	1.720
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	3580.000
MEC6H5	<1.210
MG	10900.000
MIBK	<12.900
MXYLEN	<1.350
NA	49100.000
NIT	2170.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	72100.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 28023
AQUIFER: ALLUVIUM
SCREENED INT.: 32.7- 41.9
BEDROCK DEPTH: 52.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	121000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	65900.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	10.000
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	4160.000
MEC6H5	<1.210
MG	18000.000
MIBK	<12.900
MXYLEN	<1.350
NA	74200.000
NIT	8330.000
OXAT	<1.350
PB	23.400
PPDDE	<0.046
PPDDT	<0.059
SO4	154000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	40.300

WELL 28026
AQUIFER: DENVER
SCREENED INT.: 110.0-120.0
BEDROCK DEPTH: 52.0
BEDROCK LITH.: SH
SCREENED ZONE: 6

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.146
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	4860.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	<4800.000
CL6CP	<0.211
CLC6H5	<0.580
CLDAN	<0.233
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.079
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.085
ETC6H5	<1.280
FL	2490.000
HG	<0.359
ISODR	<0.109
K	675.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	63900.000
NIT	27.400
OXAT	<1.350
PB	23.900
PPDDE	<0.046
PPDDT	<0.097
SO4	12700.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<101.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 28027
AQUIFER: ALLUVIUM
SCREENED INT.: 39.0- 48.0
BEDROCK DEPTH: 48.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	68400.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	35900.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	6.190
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	3560.000
MEC6H5	<1.210
MG	8670.000
MIBK	<12.900
MXYLEN	<1.350
NA	42100.000
NIT	3440.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	53500.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<101.000

WELL 28028
AQUIFER: DENVER
SCREENED INT.: 57.5- 67.5
BEDROCK DEPTH: 48.0
BEDROCK LITH.: SH
SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	44200.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	28200.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2800.000
MEC6H5	<1.210
MG	3080.000
MIBK	<12.900
MXYLEN	<1.350
NA	80900.000
NIT	199.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	129000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 30009
 AQUIFER: ALLUVIUM
 SCREENED INT.: 9.0- 24.0
 BEDROCK DEPTH: 24.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	104000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	93400.000
CL6CP	<0.211
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	16.300
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1320.000
HG	<0.359
ISODR	<0.056
K	6350.000
MEC6H5	<1.210
MG	37300.000
MIBK	<12.900
MXYLEN	<1.350
NA	160000.000
NIT	8680.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	447000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	135.000

WELL 30011
 AQUIFER: DENVER
 SCREENED INT.: 123.0-133.0
 BEDROCK DEPTH: 24.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	9380.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	29300.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2480.000
HG	<0.359
ISODR	<0.056
K	2100.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	84100.000
NIT	24.300
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
FPDDT	<0.059
SO4	<10000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 31005 AQUIFER: ALLUVIUM
SCREENED INT.: 20.0- 45.0
BEDROCK DEPTH: 43.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	187000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	178000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	22.500
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2860.000
MEC6H5	<1.210
MG	59400.000
MIBK	<12.900
MXYLEN	<1.350
NA	208000.000
NIT	388.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	602000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	43.000

WELL 32002 AQUIFER: DENVER
SCREENED INT.: 105.0-115.0
BEDROCK DEPTH: 30.8
BEDROCK LITH.: SH
SCREENED ZONE: AL

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	104000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	58900.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	.
MEC6H5	<1.210
MG	1990.000
MIBK	<12.900
MXYLEN	<1.350
NA	230000.000
NIT	<10.000
OXAT	<1.350
PB	64.600
PPDDE	<0.046
PPDDT	<0.059
SO4	698000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	34.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL
33001

AQUIFER: ALLUVIUM
SCREENED INT.: 60.2- 78.6
BEDROCK DEPTH: 77.3
BEDROCK LITH.: SS
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	47500.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	27000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	2990.000
MEC6H5	<1.210
MG	6240.000
MIBK	<12.900
MXYLEN	<1.350
NA	41000.000
NIT	1400.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	36300.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<40.200

WELL
33002

AQUIFER: ALLUVIUM
SCREENED INT.: 103.9-111.5
BEDROCK DEPTH: 112.1
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	8.230
CA	181000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	122000.000
CL6CP	<0.083
CLC6H5	32.700
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	5800.000
MEC6H5	<1.210
MG	19500.000
MIBK	<12.900
MXYLEN	<1.350
NA	101000.000
NIT	7260.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	332000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	9.470
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 33016 AQUIFER: DENVER
 SCREENED INT.: 75.0- 85.0
 BEDROCK DEPTH: 60.9
 BEDROCK LITH.: SS
 SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	29600.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	9450.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	9.090
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1430.000
HG	<0.359
ISODR	<0.056
K	1530.000
MEC6H5	<1.210
MG	1960.000
MIBK	<12.900
MXYLEN	<1.350
NA	57800.000
NIT	3900.000
OXAT	<1.350
PB	22.200
PPDDE	<0.046
PPDDT	<0.059
SO4	52600.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	25.200

WELL 33026 AQUIFER: DENVER
 SCREENED INT.: 98.0-108.0
 BEDROCK DEPTH: 63.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 7

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	8700.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	11200.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1820.000
HG	<0.359
ISODR	<0.056
K	<520.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	62800.000
NIT	2810.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	57700.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	44.700

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 33030
 AQUIFER: ALLUVIUM
 SCREENED INT.: 55.0-115.0
 BEDROCK DEPTH: 117.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	126000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	81400.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	6.490
CU	<7.940
DBCP	0.786
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4160.000
MEC6H5	<1.210
MG	16600.000
MIBK	<12.900
MXYLEN	<1.350
NA	64400.000
NIT	14200.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	154000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<40.200

WELL 33032
 AQUIFER: DENVER
 SCREENED INT.: 190.0-200.0
 BEDROCK DEPTH: 117.5
 BEDROCK LITH.: SH
 SCREENED ZONE: 7

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	40100.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	<4800.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	8.320
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1680.000
HG	<0.359
ISODR	<0.056
K	2770.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	85300.000
NIT	9910.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PFDDT	<0.059
SO4	13400.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	65.600

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 33033 AQUIFER: ALLUVIUM
SCREENED INT.: 38.7- 53.7
BEDROCK DEPTH: 53.7
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

WELL 33034 AQUIFER: DENVER
SCREENED INT.: 74.0- 84.0
BEDROCK DEPTH: 53.7
BEDROCK LITH.: SH
SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	84500.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	43500.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4340.000
MEC6H5	<1.210
MG	9700.000
MIBK	<12.900
MXYLEN	<1.350
NA	44100.000
NIT	7330.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	76200.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	71.700

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	33800.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	29900.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1450.000
HG	<0.359
ISODR	<0.056
K	2620.000
MEC6H5	<1.210
MG	2560.000
MIBK	<12.900
MXYLEN	<1.350
NA	72300.000
NIT	576.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	144000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<40.200

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 33039
 AQUIFER: ALLUVIUM
 SCREENED INT.: 45.8- 55.8
 BEDROCK DEPTH: 0.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	113000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	72100.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	0.416
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4960.000
MEC6H5	<1.210
MG	41600.000
MIBK	<12.900
MXYLEN	<1.350
NA	194000.000
NIT	8530.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	142000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	6.170
XYLEN	<2.470
ZN	48.500

WELL 33063
 AQUIFER: ALLUVIUM
 SCREENED INT.: 68.0- 78.0
 BEDROCK DEPTH: 78.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	132000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	81000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	8.810
CU	<7.940
DBCP	3.210
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	5030.000
MEC6H5	<1.210
MG	14600.000
MIBK	<12.900
MXYLEN	<1.350
NA	62000.000
NIT	8290.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	142000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	98.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 33075 AQUIFER: ALLUVIUM
SCREENED INT.: 57.4- 77.4
BEDROCK DEPTH: 99.0
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	25.800
112TCE	<1.000
11DCE	8.090
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	122000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	72600.000
CL6CP	<0.083
CLC6H5	0.582
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	6.120
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4710.000
MEC6H5	<1.210
MG	10700.000
MIBK	<12.900
MXYLEN	<1.350
NA	56900.000
NIT	9770.000
OXAT	<1.350
PB	<37.200
PPDDE	<0.046
PPDDT	<0.059
SO4	164000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	33.700
XYLEN	<2.470
ZN	53.300

WELL 33077 AQUIFER: ALLUVIUM
SCREENED INT.: 107.5-127.5
BEDROCK DEPTH: 127.5
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	.
CCL4	<2.400
CD	.
CH2CL2	<5.000
CHCL3	<1.400
CL	51000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4110.000
MEC6H5	<1.210
MG	.
MIBK	<12.900
MXYLEN	<1.350
NA	.
NIT	8630.000
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	107000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	5.160
XYLEN	<2.470
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 34002
AQUIFER: ALLUVIUM
SCREENED INT.: 68.5- 83.7
BEDROCK DEPTH: 83.7
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	61000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	105000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	3.790
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	4270.000
MEC6H5	<1.210
MG	12800.000
MIBK	<12.900
MXYLEN	<1.350
NA	75900.000
NIT	261.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	46900.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	28.000

WELL 34003
AQUIFER: DENVER
SCREENED INT.: 122.0-132.0
BEDROCK DEPTH: 83.7
BEDROCK LITH.: SH
SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	8450.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	5600.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2200.000
HG	<0.359
ISODR	<0.056
K	680.000
MEC6H5	<1.210
MG	<500.000
MIBK	<12.900
MXYLEN	<1.350
NA	57100.000
NIT	29.100
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	13500.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 34005 AQUIFER: ALLUVIUM
 SCREENED INT.: 61.0- 71.0
 BEDROCK DEPTH: 71.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	126000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	28.300
CL	379000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.802
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	4860.000
MEC6H5	<1.210
MG	27100.000
MIBK	<12.900
MXYLEN	<1.350
NA	227000.000
NIT	10800.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	148000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	40.400

WELL 34006 AQUIFER: DENVER
 SCREENED INT.: 85.0- 95.0
 BEDROCK DEPTH: 71.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	95300.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	321000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1240.000
HG	<0.359
ISODR	<0.056
K	2210.000
MEC6H5	<1.210
MG	7140.000
MIBK	<12.900
MXYLEN	<1.350
NA	213000.000
NIT	20.900
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	156000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	56.900

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 34008
 AQUIFER: ALLUVIUM
 SCREENED INT.: 54.5- 84.5
 BEDROCK DEPTH: 84.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	75900.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	98100.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.098
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	3550.000
MEC6H5	<1.210
MG	15500.000
MIBK	<12.900
MXYLEN	<1.350
NA	79300.000
NIT	674.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	68100.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 34009
 AQUIFER: DENVER
 SCREENED INT.: 100.0-110.0
 BEDROCK DEPTH: 84.5
 BEDROCK LITH.: SH
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	21000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	7520.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1410.000
HG	<0.359
ISODR	<0.056
K	1330.000
MEC6H5	<1.210
MG	1790.000
MIBK	<12.900
MXYLEN	<1.350
NA	49400.000
NIT	14.700
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	53600.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 34507
 AQUIFER: ALLUVIUM
 SCREENED INT.: 0.0- 0.0
 BEDROCK DEPTH: 0.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	138000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	20.300
CL	450000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	11.700
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.286
DMDS	<1.160
DMMP	<15.200
ENDRN	0.506
ETC6H5	<1.280
FL	1200.000
HG	<0.359
ISODR	<0.056
K	4670.000
MEC6H5	<1.210
MG	49000.000
MIBK	<12.900
MXYLEN	<1.350
NA	204000.000
NIT	10800.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	166000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 34508
 AQUIFER: ALLUVIUM
 SCREENED INT.: 0.0- 0.0
 BEDROCK DEPTH: 0.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	.
BTZ	<1.140
C6H6	<1.340
CA	.
CCL4	<2.400
CD	.
CH2CL2	<5.000
CHCL3	16.500
CL	528000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.088
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1340.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<1.210
MG	.
MIBK	<12.900
MXYLEN	<1.350
NA	.
NIT	7820.000
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	163000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	1.100
XYLEN	<2.470
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 34515 AQUIFER: ALLUVIUM
 SCREENED INT.: 40.0- 50.0
 BEDROCK DEPTH: 65.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	124000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	63000.000
CL6CP	<0.211
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	21.200
CU	16.800
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	3980.000
MEC6H5	<1.210
MG	24000.000
MIBK	<12.900
MXYLEN	<1.350
NA	68800.000
NIT	10100.000
OXAT	<1.350
PB	20.300
PPDDE	<0.046
PPDDT	<0.059
SO4	140000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	76.700

WELL 35013 AQUIFER: DENVER
 SCREENED INT.: 26.0- 29.4
 BEDROCK DEPTH: 8.5
 BEDROCK LITH.: SH
 SCREENED ZONE: A

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	4.410
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	107000.000
CCL4	52.000
CD	<5.160
CH2CL2	<5.000
CHCL3	12.200
CL	102000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	48.600
CU	15.700
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	5160.000
MEC6H5	<1.210
MG	41200.000
MIBK	<12.900
MXYLEN	<1.350
NA	135000.000
NIT	17400.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	179000.000
T12DCE	<1.200
TCLEE	6.100
TRCLE	9.830
XYLEN	<2.470
ZN	131.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 35016
 AQUIFER: DENVER
 SCREENED INT.: 37.0- 40.4
 BEDROCK DEPTH: 18.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1U

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	7.430
BTZ	3.560
C6H6	<1.340
CA	551000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	1610000.000
CL6CP	<0.083
CLC6H5	19.500
CLDAN	<0.152
CPMS	1.250
CPMSO	<1.980
CPMSO2	<2.240
CR	45.900
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	5350.000
DITH	183.000
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2150.000
HG	<0.359
ISODR	<0.056
K	7190.000
MEC6H5	<1.210
MG	99300.000
MIBK	<12.900
MXYLEN	<1.350
NA	446000.000
NIT	176.000
OXAT	16.900
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	473000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	2.550
XYLEN	<2.470
ZN	<20.100

WELL 35017
 AQUIFER: DENVER
 SCREENED INT.: 88.4- 91.8
 BEDROCK DEPTH: 18.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	13900.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	49400.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.065
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1530.000
HG	<0.359
ISODR	<0.056
K	1620.000
MEC6H5	<1.210
MG	623.000
MIBK	<12.900
MXYLEN	<1.350
NA	167000.000
NIT	34.700
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	187000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 35023 AQUIFER: ALLUVIUM
 SCREENED INT.: 21.8- 25.2
 BEDROCK DEPTH: 25.0
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

WELL 35036 AQUIFER: DENVER
 SCREENED INT.: 74.0- 89.0
 BEDROCK DEPTH: 17.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	1.610
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	1.240
C6H6	<1.340
CA	93000.000
CCL4	<2.400
CD	<5.160
CH2CL2	7.090
CHCL3	1530.000
CL	170000.000
CL6CP	<0.083
CLC6H5	4.330
CLDAN	<0.152
CPMS	2.530
CPMSO	14.400
CPMSO2	29.200
CR	<5.960
CU	<7.940
DBCP	> 2.430
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	3610.000
MEC6H5	<1.210
MG	26000.000
MIBK	<12.900
MXYLEN	<1.350
NA	133000.000
NIT	<10.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	168000.000
T12DCE	<1.200
TCLEE	3.910
TRCLE	<1.100
XYLEN	<2.470
ZN	50.800

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	103000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	62100.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2800.000
MEC6H5	<1.210
MG	6730.000
MIBK	<12.900
MXYLEN	<1.350
NA	315000.000
NIT	11.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	635000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 35037
 AQUIFER: ALLUVIUM
 SCREENED INT.: 30.0- 39.1
 BEDROCK DEPTH: 37.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

WELL 35038
 AQUIFER: DENVER
 SCREENED INT.: 59.0- 67.0
 BEDROCK DEPTH: 37.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	157000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	10.400
CL	246000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	172.000
CU	174.000
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	1.760
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1870.000
HG	<0.359
ISODR	<0.056
K	5380.000
MEC6H5	<1.210
MG	65100.000
MIBK	<12.900
MXYLEN	<1.350
NA	238000.000
NIT	4320.000
OXAT	<1.350
PB	120.000
PPDDE	<0.046
PPDDT	<0.059
SO4	277000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	589.000

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	71500.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	36200.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2650.000
MEC6H5	<1.210
MG	14500.000
MIBK	<12.900
MXYLEN	<1.350
NA	213000.000
NIT	4420.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	249000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 35039
 AQUIFER: DENVER
 SCREENED INT.: 100.0-112.0
 BEDROCK DEPTH: 37.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	59100.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	46500.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	1620.000
MEC6H5	<1.210
MG	3140.000
MIBK	<12.900
MXYLEN	<1.350
NA	258000.000
NIT	50.400
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	376000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	66.400

WELL 35052
 AQUIFER: ALLUVIUM
 SCREENED INT.: 15.0- 20.0
 BEDROCK DEPTH: 48.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	455000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	750000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	109.000
CU	47.900
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	1.650
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	19300.000
MEC6H5	<1.210
MG	59100.000
MIBK	<12.900
MXYLEN	<1.350
NA	237000.000
NIT	9630.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	280000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	210.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 35054
AQUIFER: DENVER
SCREENED INT.: 66.0- 76.0
BEDROCK DEPTH: 48.0
BEDROCK LITH.: SH
SCREENED ZONE: AL

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	236000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	24500.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	15.200
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	4790.000
MEC6H5	<1.210
MG	45200.000
MIBK	<12.900
MXYLEN	<1.350
NA	465000.000
NIT	131.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1400000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 35056
AQUIFER: DENVER
SCREENED INT.: 110.0-145.0
BEDROCK DEPTH: 10.1
BEDROCK LITH.: SS
SCREENED ZONE: 1U

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	57000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	83700.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	1620.000
MEC6H5	<1.210
MG	615.000
MIBK	<12.900
MXYLEN	<1.350
NA	219000.000
NIT	<10.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	411000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 35058
 AQUIFER: ALLUVIUM
 SCREENED INT.: 15.5- 35.5
 BEDROCK DEPTH: 33.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	74600.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	5.260
CL	151000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	20.300
CU	19.800
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	1.220
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1750.000
HG	<0.359
ISODR	<0.056
K	4420.000
MEC6H5	<1.210
MG	29100.000
MIBK	<12.900
MXYLEN	<1.350
NA	194000.000
NIT	4690.000
OXAT	<1.350
PB	25.500
PPDDE	<0.046
PPDDT	<0.059
SO4	155000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	78.500

WELL 35061
 AQUIFER: ALLUVIUM
 SCREENED INT.: 35.0- 40.0
 BEDROCK DEPTH: 40.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	300000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	227000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	56.700
CU	25.500
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2390.000
HG	<0.359
ISODR	<0.056
K	5750.000
MEC6H5	<1.210
MG	77100.000
MIBK	<12.900
MXYLEN	<1.350
NA	294000.000
NIT	12700.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1050000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	131.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 35062
AQUIFER: DENVER
SCREENED INT.: 66.5- 81.5
BEDROCK DEPTH: 40.0
BEDROCK LITH.: SH
SCREENED ZONE: AL

WELL 35063
AQUIFER: DENVER
SCREENED INT.: 96.0-116.0
BEDROCK DEPTH: 40.0
BEDROCK LITH.: SH
SCREENED ZONE: 1U

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	209000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	35400.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	17.100
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1180.000
HG	<0.359
ISODR	<0.056
K	4490.000
MEC6H5	<1.210
MG	28700.000
MIBK	<12.900
MXYLEN	<1.350
NA	523000.000
NIT	.
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1340000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	43.200

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	50200.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	57200.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1200.000
HG	<0.359
ISODR	<0.056
K	1620.000
MEC6H5	<1.210
MG	1540.000
MIBK	<12.900
MXYLEN	<1.350
NA	274000.000
NIT	.
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	525000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	24.700

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 35065
AQUIFER: ALLUVIUM
SCREENED INT.: 16.0- 31.0
BEDROCK DEPTH: 32.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	0.830
AS	12.000
BTZ	<1.140
C6H6	<1.340
CA	700000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	479000.000
CL6CP	<0.083
CLC6H5	5.870
CLDAN	<0.152
CPMS	<1.080
CPMSO	9.510
CPMSO2	494.000
CR	191.000
CU	92.900
DBCP	0.189
DCPD	58.600
DIMP	1340.000
DITH	48.800
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	4020.000
HG	<0.359
ISODR	<0.056
K	6650.000
MEC6H5	<1.210
MG	352000.000
MIBK	<12.900
MXYLEN	<1.350
NA	1300000.000
NIT	4020.000
OXAT	8.020
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	3970000.000
T12DCE	<1.200
TCLEE	23.300
TRCLE	9.810
XYLEN	<2.470
ZN	367.000

WELL 35066
AQUIFER: DENVER
SCREENED INT.: 40.5- 55.5
BEDROCK DEPTH: 32.0
BEDROCK LITH.: SH
SCREENED ZONE: AL

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	12.100
BTZ	<1.140
C6H6	<1.340
CA	575000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	1.910
CL	2100000.000
CL6CP	<0.083
CLC6H5	2.330
CLDAN	<0.152
CPMS	3.640
CPMSO	<1.980
CPMSO2	<2.240
CR	73.900
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	2710.000
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	4830.000
HG	1.970
ISODR	<0.056
K	8830.000
MEC6H5	<1.210
MG	355000.000
MIBK	<12.900
MXYLEN	<1.350
NA	1190000.000
NIT	3070.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	2790000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 35067 AQUIFER: DENVER
 SCREENED INT.: 68.0- 83.0
 BEDROCK DEPTH: 32.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1U

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	285000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	133000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	19.400
CU	9.400
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1630.000
HG	<0.359
ISODR	<0.056
K	5160.000
MEC6H5	<1.210
MG	71200.000
MIBK	<12.900
MXYLEN	<1.350
NA	521000.000
NIT	.
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1420000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	63.000

WELL 35068 AQUIFER: DENVER
 SCREENED INT.: 99.0-159.0
 BEDROCK DEPTH: 32.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1 2 & 3

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	75600.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	54200.000
CL6CP	<0.211
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1280.000
HG	<0.359
ISODR	<0.056
K	1330.000
MEC6H5	<1.210
MG	5950.000
MIBK	<12.900
MXYLEN	<1.350
NA	279000.000
NIT	.
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	537000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL
36001

AQUIFER: ALLUVIUM
SCREENED INT.: 10.5- 20.0
BEDROCK DEPTH: 17.0
BEDROCK LITH.: SS
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<850.000
112TCE	<500.000
11DCE	<550.000
11DCLE	<600.000
12DCLE	<305.000
ALDRN	<0.083
AS	3.640
BTZ	<1.140
C6H6	25000.000
CA	86300.000
CCL4	<1200.000
CD	<5.160
CH2CL2	<2500.000
CHCL3	4870.000
CL	175000.000
CL6CP	<0.169
CLC6H5	31200.000
CLDAN	<0.152
CPMS	113.000
CPMSO	<1.980
CPMSO2	154.000
CR	<5.960
CU	9.780
DECP	278.000
DCPD	.
DIMP	<10.500
DITH	1.690
DLDRN	1.230
DMDS	47.100
DMMP	132.000
ENDRN	<0.060
ETC6H5	<640.000
FL	2600.000
HG	1.900
ISODR	<0.056
K	3260.000
MEC6H5	<605.000
MG	34500.000
MIBK	.
MXYLEN	<675.000
NA	292000.000
NIT	56.800
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	166000.000
T12DCE	<600.000
TCLEE	<650.000
TRCLE	2840.000
XYLEN	<1240.000
ZN	<101.000

WELL
36056

AQUIFER: DENVER
SCREENED INT.: 26.5- 30.5
BEDROCK DEPTH: 24.5
BEDROCK LITH.: ST
SCREENED ZONE: VC

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	1.700
11DCLE	3.770
12DCLE	474.000
ALDRN	<2.080
AS	103.000
BTZ	<1.140
C6H6	16000.000
CA	1060000.000
CCL4	<2.400
CD	<5.160
CH2CL2	7340.000
CHCL3	1920.000
CL	3640000.000
CL6CP	<2.080
CLC6H5	1170.000
CLDAN	<3.800
CPMS	63.800
CPMSO	392.000
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DECP	1.550
DCPD	<9.310
DIMP	164.000
DITH	7760.000
DLDRN	2.340
DMDS	11.400
DMMP	<15.200
ENDRN	<1.500
ETC6H5	> 8.090
FL	6230.000
HG	11.300
ISODR	<1.400
K	6610.000
MEC6H5	> 8.890
MG	356000.000
MIBK	<12.900
MXYLEN	> 8.930
NA	1480000.000
NIT	127.000
OXAT	1550.000
PB	<18.600
PPDDE	<1.150
PPDDT	<1.480
SO4	1960000.000
T12DCE	14.000
TCLEE	184.000
TRCLE	146.000
XYLEN	> 18.100
ZN	22.400

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 36065 AQUIFER: ALLUVIUM
SCREENED INT.: 17.6- 21.0
BEDROCK DEPTH: 22.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

WELL 36066 AQUIFER: DENVER
SCREENED INT.: 73.3- 76.7
BEDROCK DEPTH: 22.5
BEDROCK LITH.: SH
SCREENED ZONE: AL

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	1.510
CA	501000.000
CCL4	16.400
CD	<5.160
CH2CL2	<5.000
CHCL3	57.500
CL	279000.000
CL6CP	<0.083
CLC6H5	0.980
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	32.400
CU	<7.940
DBCP	1.520
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2890.000
HG	<0.359
ISODR	<0.056
K	3350.000
MEC6H5	<1.210
MG	119000.000
MIBK	<12.900
MXYLEN	<1.350
NA	485000.000
NIT	3170.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	2090000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	32.600
XYLEN	<2.470
ZN	<101.000

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	69800.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	57700.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	2540.000
MEC6H5	<1.210
MG	7220.000
MIBK	<12.900
MXYLEN	<1.350
NA	671000.000
NIT	49.400
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1270000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<101.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 36069
 AQUIFER: DENVER
 SCREENED INT.: 17.5- 22.5
 BEDROCK DEPTH: 9.7
 BEDROCK LITH.: SH
 SCREENED ZONE: VCE

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	76300.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	136.000
CL	246000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMF	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2330.000
HG	<0.359
ISODR	<0.056
K	4170.000
MEC6H5	<1.210
MG	18900.000
MIBK	<12.900
MXYLEN	<1.350
NA	323000.000
NIT	23400.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	419000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	34.900

WELL 36075
 AQUIFER: ALLUVIUM
 SCREENED INT.: 7.6- 11.0
 BEDROCK DEPTH: 14.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	106000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	1.440
CL	137000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	9.690
CU	9.480
DBCP	<0.130
DCPD	<16.200
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	3530.000
HG	<0.359
ISODR	<0.056
K	2800.000
MEC6H5	<1.210
MG	47200.000
MIBK	<12.900
MXYLEN	<1.350
NA	373000.000
NIT	15400.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	776000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	1.740
XYLEN	<2.470
ZN	<101.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 36076 AQUIFER: ALLUVIUM
 SCREENED INT.: 13.5- 16.9
 BEDROCK DEPTH: 29.5
 BEDROCK LITH.: ST
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<850.000
112TCE	3.790
11DCE	6.990
11DCLE	9.740
12DCLE	<305.000
ALDRN	<0.830
AS	315.000
BTZ	7.730
C6H6	1420.000
CA	180000.000
CCL4	<1200.000
CD	<5.160
CH2CL2	5780.000
CHCL3	11100.000
CL	791000.000
CL6CP	<0.830
CLC6H5	19600.000
CLDAN	<1.520
CPMS	20.800
CPMSO	10.800
CPMSO2	1390.000
CR	15.800
CU	10.400
DBCP	0.586
DCPD	<9.310
DIMP	<10.500
DITH	33.300
DLDRN	<0.550
DMDS	8.990
DMMP	<15.200
ENDRN	<0.600
ETC6H5	<1.280
FL	2300.000
HG	<0.359
ISODR	<0.560
K	11100.000
MEC6H5	8.890
MG	33600.000
MIBK	16.200
MXYLEN	1.520
NA	739000.000
NIT	2010.000
OXAT	26.100
PB	<18.600
PPDDE	<0.460
PPDDT	<0.590
SO4	752000.000
T12DCE	9.560
TCLEE	9.160
TRCLE	16.500
XYLEN	<2.470
ZN	<101.000

WELL 36083 AQUIFER: DENVER
 SCREENED INT.: 79.0- 82.4
 BEDROCK DEPTH: 29.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1U

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<25.200
BTZ	<1.140
C6H6	<1.340
CA	364000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	226000.000
CL6CP	<0.169
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	34.600
CU	9.390
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	5250.000
HG	<0.359
ISODR	<0.056
K	8070.000
MEC6H5	<1.210
MG	141000.000
MIBK	<12.900
MXYLEN	<1.350
NA	3830000.000
NIT	13.500
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	8710000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	208.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 36084 AQUIFER: ALLUVIUM
SCREENED INT.: 7.6- 11.6
BEDROCK DEPTH: 25.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	36.800
11DCE	<1.100
11DCLE	<1.200
12DCLE	11.900
ALDRN	<2.080
AS	131.000
BTZ	5.270
C6H6	8.470
CA	893000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	34.500
CL	6230000.000
CL6CP	<2.080
CLC6H5	4.710
CLDAN	<3.800
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	58.600
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	12100.000
DITH	498.000
DLDRN	<1.380
DMDS	<1.160
DMMP	<15.200
ENDRN	<1.500
ETC6H5	<1.280
FL	9590.000
HG	<0.359
ISODR	<1.400
K	30100.000
MEC6H5	<1.210
MG	361000.000
MIBK	<12.900
MXYLEN	<1.350
NA	3410000.000
NIT	609.000
OXAT	68.600
PB	<18.600
PPDDE	<1.150
PPDDT	<1.480
SO4	2980000.000
T12DCE	56.700
TCLEE	8.760
TRCLE	> 194.000
XYLEN	<2.470
ZN	34.000

WELL 36090 AQUIFER: DENVER
SCREENED INT.: 21.9- 25.3
BEDROCK DEPTH: 20.0
BEDROCK LITH.: SH
SCREENED ZONE: VC

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	4.470
11DCE	<1.100
11DCLE	<1.200
12DCLE	265.000
ALDRN	<0.083
AS	26.000
BTZ	14.600
C6H6	<1.340
CA	1180000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	3.990
CL	2590000.000
CL6CP	<0.083
CLC6H5	55.900
CLDAN	<0.152
CPMS	8.460
CPMSO	<1.980
CPMSO2	<2.240
CR	62.800
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	13.200
DITH	1110.000
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	2.840
FL	3820.000
HG	<0.359
ISODR	<0.056
K	7190.000
MEC6H5	<1.210
MG	288000.000
MIBK	<12.900
MXYLEN	<1.350
NA	796000.000
NIT	255.000
OXAT	1170.000
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	2070000.000
T12DCE	14.900
TCLEE	23.600
TRCLE	175.000
XYLEN	<2.470
ZN	36.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 36110
 AQUIFER: DENVER
 SCREENED INT.: 61.8- 65.2
 BEDROCK DEPTH: 27.1
 BEDROCK LITH.: SH
 SCREENED ZONE: AS

WELL 36112
 AQUIFER: ALLUVIUM
 SCREENED INT.: 23.0- 33.0
 BEDROCK DEPTH: 33.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	2.610
ALDRN	<0.083
AS	26.700
BTZ	<1.140
C6H6	<1.340
CA	250000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	91.600
CL	145000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	3.650
CR	21.200
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	> 0.050
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	2020.000
HG	<0.359
ISODR	<0.056
K	4680.000
MEC6H5	<1.210
MG	68800.000
MIBK	<12.900
MXYLEN	<1.350
NA	680000.000
NIT	690.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
FPDDT	<0.059
SO4	1910000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<101.000

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	0.750
ALDRN	<0.117
AS	19.900
BTZ	<1.140
C6H6	<1.340
CA	733000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	2460000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	6.110
CPMSO	<1.980
CPMSO2	<2.240
CR	55.100
CU	<7.940
DBCP	<0.130
DCPD	<21.600
DIMP	144.000
DITH	415.000
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	3030.000
HG	<0.359
ISODR	<0.056
K	8080.000
MEC6H5	<1.210
MG	242000.000
MIBK	<12.900
MXYLEN	<1.350
NA	498000.000
NIT	2750.000
OXAT	60.100
PB	<18.600
PPDDE	<0.046
FPDDT	<0.059
SO4	835000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<101.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 36113 AQUIFER: DENVER
 SCREENED INT.: 65.5- 80.5
 BEDROCK DEPTH: 33.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1U

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	1.670
CA	47800.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	14300.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	5510.000
MEC6H5	<1.210
MG	5260.000
MIBK	<12.900
MXYLEN	<1.350
NA	183000.000
NIT	75.300
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	299000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<101.000

WELL 36114 AQUIFER: DENVER
 SCREENED INT.: 101.2-146.2
 BEDROCK DEPTH: 33.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 1 2

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	91400.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	189000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1220.000
HG	<0.359
ISODR	<0.056
K	2270.000
MEC6H5	<1.210
MG	2620.000
MIBK	<12.900
MXYLEN	<1.350
NA	376000.000
NIT	44.400
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	628000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<101.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 36117
AQUIFER: DENVER
SCREENED INT.: 61.0- 76.0
BEDROCK DEPTH: 12.5
BEDROCK LITH.: SH
SCREENED ZONE: AM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.146
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	102000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	10000.000
CL6CP	<0.211
CLC6H5	<0.580
CLDAN	<0.233
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.124
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.085
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.109
K	3890.000
MEC6H5	<1.210
MG	19500.000
MIBK	<12.900
MXYLEN	<1.350
NA	195000.000
NIT	167.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.097
SO4	241000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	24.200

WELL 36119
AQUIFER: DENVER
SCREENED INT.: 81.0- 91.0
BEDROCK DEPTH: 9.0
BEDROCK LITH.: SH
SCREENED ZONE: AM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	11800.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	19400.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	1740.000
MEC6H5	<1.210
MG	995.000
MIBK	<12.900
MXYLEN	<1.350
NA	169000.000
NIT	161.000
OXAT	<1.350
PB	28.400
PPDDE	<0.046
PPDDT	<0.059
SO4	207000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	23.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 36121
 AQUIFER: DENVER
 SCREENED INT.: 48.0- 53.0
 BEDROCK DEPTH: 17.5
 BEDROCK LITH.: SH
 SCREENED ZONE: AM

WELL 36122
 AQUIFER: DENVER
 SCREENED INT.: 70.0- 80.0
 BEDROCK DEPTH: 17.5
 BEDROCK LITH.: SH
 SCREENED ZONE: AM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	366000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	218000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	25.900
CU	<7.940
DBCP	<0.130
DCPD	<16.200
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	1860.000
HG	<0.359
ISODR	<0.056
K	7000.000
MEC6H5	<1.210
MG	79800.000
MIBK	<12.900
MXYLEN	<1.350
NA	804000.000
NIT	4080.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	2080000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<101.000

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	1.630
CA	109000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	164000.000
CL6CP	<0.083
CLC6H5	<0.580
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.056
K	3890.000
MEC6H5	<1.210
MG	7560.000
MIBK	<12.900
MXYLEN	<1.350
NA	501000.000
NIT	56.100
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1020000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	33.800

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 36139 AQUIFER: DENVER
 SCREENED INT.: 15.0- 30.0
 BEDROCK DEPTH: 14.0
 BEDROCK LITH.: SS
 SCREENED ZONE: AS

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	20.400
ALDRN	<0.415
AS	74.900
BTZ	6.790
C6H6	<1.340
CA	1330000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	25.400
CL	4410000.000
CL6CP	<0.415
CLC6H5	<0.580
CLDAN	<0.760
CPMS	3.790
CPMSO	<1.980
CPMSO2	<2.240
CR	81.900
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	417.000
DITH	302.000
DLDRN	<0.275
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.300
ETC6H5	<1.280
FL	4190.000
HG	<0.359
ISODR	<0.280
K	32900.000
MEC6H5	<1.210
MG	262000.000
MIBK	<12.900
MXYLEN	<1.350
NA	1260000.000
NIT	811.000
OXAT	58.900
PB	<18.600
PPDDE	0.230
PPDDT	<0.295
SO4	1950000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	154.000

WELL 36154 AQUIFER: DENVER
 SCREENED INT.: 132.0-142.0
 BEDROCK DEPTH: 11.5
 BEDROCK LITH.: ST
 SCREENED ZONE: 1U

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.146
AS	<2.500
BTZ	<1.140
C6H6	<1.340
CA	37100.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	142000.000
CL6CP	<0.211
CLC6H5	<0.580
CLDAN	<0.233
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.079
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.085
ETC6H5	<1.280
FL	<1220.000
HG	<0.359
ISODR	<0.109
K	1470.000
MEC6H5	<1.210
MG	751.000
MIBK	<12.900
MXYLEN	<1.350
NA	278000.000
NIT	47.900
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.097
SO4	401000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37308
 AQUIFER: ALLUVIUM
 SCREENED INT.: 0.0- 0.0
 BEDROCK DEPTH: 20.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	1.690
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	120000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	275000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	59.100
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	54.100
DIMP	78.400
DITH	<1.100
DLDRN	0.291
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	2090.000
HG	<0.240
ISODR	<0.060
K	4130.000
MEC6H5	<1.210
MG	68100.000
MIBK	<12.900
MXYLEN	<1.350
NA	272000.000
NIT	667.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	430000.000
T12DCE	<1.200
TCLEE	14.400
TRCLE	<1.100
XYLEN	<2.470
ZN	21.600

WELL 37309
 AQUIFER: ALLUVIUM
 SCREENED INT.: 0.0- 0.0
 BEDROCK DEPTH: 23.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	6.270
ALDRN	<0.700
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	144000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	624000.000
CL6CP	<0.700
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	27.100
CPMSO2	32.600
CR	<5.960
CU	<7.940
DBCP	0.176
DCPD	475.000
DIMP	829.000
DITH	6.480
DLDRN	<0.600
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.520
ETC6H5	<1.280
FL	2790.000
HG	<0.240
ISODR	<0.600
K	2580.000
MEC6H5	<1.210
MG	71400.000
MIBK	<12.900
MXYLEN	<1.350
NA	539000.000
NIT	2180.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.530
PPDDT	<0.700
SO4	591000.000
T12DCE	<1.200
TCLEE	45.400
TRCLE	3.160
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37312 AQUIFER: ALLUVIUM
 SCREENED INT.: 0.0- 0.0
 BEDROCK DEPTH: 13.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	135000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	258000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	1.620
DMDS	<1.800
DMMP	<15.200
ENDRN	1.510
ETC6H5	<1.280
FL	2090.000
HG	<0.240
ISODR	<0.060
K	2430.000
MEC6H5	<1.210
MG	72500.000
MIBK	<12.900
MXYLEN	<1.350
NA	250000.000
NIT	1020.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	481000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 37313 AQUIFER: ALLUVIUM
 SCREENED INT.: 0.0- 0.0
 BEDROCK DEPTH: 28.8
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	270000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	730000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	2170.000
DITH	8.970
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	2030.000
HG	<0.240
ISODR	<0.060
K	12300.000
MEC6H5	<1.210
MG	> 400000.000
MIBK	<12.900
MXYLEN	<1.350
NA	600000.000
NIT	85.400
OXAT	<2.000
PB	23.300
PPDDE	<0.053
PPDDT	<0.070
SO4	1030000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	22.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37316
AQUIFER: DENVER
SCREENED INT.: 88.1- 96.2
BEDROCK DEPTH: 31.0
BEDROCK LITH.: SH
SCREENED ZONE: 5

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	74500.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	27.000
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2060.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	505000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 37317
AQUIFER: DENVER
SCREENED INT.: 51.2- 60.6
BEDROCK DEPTH: 31.1
BEDROCK LITH.: SH
SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	56000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1290.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	627000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37318 AQUIFER: DENVER
 SCREENED INT.: 41.8- 50.7
 BEDROCK DEPTH: 27.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCl4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	44300.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	<1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	313000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 37319 AQUIFER: DENVER
 SCREENED INT.: 145.4-154.5
 BEDROCK DEPTH: 29.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 6

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	6.760
CHCL3	3.100
CL	6110.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1670.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	20200.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37320
 AQUIFER: ALLUVIUM
 SCREENED INT.: 22.7- 32.7
 BEDROCK DEPTH: 35.0
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	1.750
CA	127000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	155000.000
CL6CP	<0.070
CLC6H5	10.000
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	12.100
DBCP	<0.130
DCPD	<9.310
DIMP	21.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.480
ISODR	<0.060
K	2890.000
MEC6H5	<1.210
MG	44300.000
MIBK	<12.900
MXYLEN	<1.350
NA	176000.000
NIT	4200.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	413000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 37321
 AQUIFER: DENVER
 SCREENED INT.: 64.0- 73.9
 BEDROCK DEPTH: 35.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	16800.000
CL6CP	<0.083
CLC6H5	3.600
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	<1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	216000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37322 AQUIFER: DENVER
 SCREENED INT.: 87.8- 96.9
 BEDROCK DEPTH: 35.0
 BEDROCK LITH.: SS
 SCREENED ZONE: 5

WELL 37323 AQUIFER: DENVER
 SCREENED INT.: 16.5- 26.3
 BEDROCK DEPTH: 10.0
 BEDROCK LITH.: SH
 SCREENED ZONE: 2

COMPOUND CONCENTRATION

111TCE <1.090
 112TCE <1.630
 11DCE <1.850
 11DCLE <1.930
 12DCLE <2.070
 ALDRN <0.083
 AS <2.500
 BTZ <1.140
 C6H6 <1.920
 CA .
 CCL4 <1.690
 CD .
 CH2CL2 <2.480
 CHCL3 <1.880
 CL 17100.000
 CL6CP <0.083
 CLC6H5 7.740
 CLDAN <0.152
 CPMS <1.080
 CPMSO <1.980
 CPMSO2 <2.240
 CR .
 CU .
 DBCP <0.130
 DCPD <9.310
 DIMP <10.500
 DITH <1.590
 DLDRN <0.054
 DMDS <1.160
 DMMP <15.200
 ENDRN <0.060
 ETC6H5 <0.620
 FL <1000.000
 HG .
 ISODR <0.056
 K .
 MEC6H5 <2.100
 MG .
 MIBK <12.900
 MXYLEN <1.040
 NA .
 NIT .
 OXAT <1.350
 PB .
 PPDDE <0.046
 PPDDT <0.059
 SO4 207000.000
 T12DCE <1.750
 TCLEE <2.760
 TRCLE <1.310
 XYLEN <1.340
 ZN .

COMPOUND CONCENTRATION

111TCE <1.090
 112TCE <1.630
 11DCE <1.850
 11DCLE <1.930
 12DCLE <2.070
 ALDRN <0.083
 AS <2.500
 BTZ <1.140
 C6H6 <1.920
 CA .
 CCL4 <1.690
 CD .
 CH2CL2 <2.480
 CHCL3 36.700
 CL 238000.000
 CL6CP <0.083
 CLC6H5 <1.360
 CLDAN <0.152
 CPMS <1.080
 CPMSO <1.980
 CPMSO2 <2.240
 CR .
 CU .
 DBCP <0.130
 DCPD <9.310
 DIMP 15.700
 DITH <1.590
 DLDRN <0.054
 DMDS <1.160
 DMMP <15.200
 ENDRN <0.060
 ETC6H5 <0.620
 FL 2310.000
 HG .
 ISODR <0.056
 K .
 MEC6H5 <2.100
 MG .
 MIBK <12.900
 MXYLEN <1.040
 NA .
 NIT .
 OXAT <1.350
 PB .
 PPDDE <0.046
 PPDDT <0.059
 SO4 1020000.000
 T12DCE <1.750
 TCLEE <2.760
 TRCLE <1.310
 XYLEN <1.340
 ZN .

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37327 AQUIFER: ALLUVIUM
 SCREENED INT.: 29.6- 34.5
 BEDROCK DEPTH: 34.9
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	257000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2700.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	1190000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.210
ZN	.

WELL 37330 AQUIFER: ALLUVIUM
 SCREENED INT.: 37.5- 57.2
 BEDROCK DEPTH: 57.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	18.100
CL	291000.000
CL6CP	<0.083
CLC6H5	2.690
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	1630.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	154000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37331
 AQUIFER: ALLUVIUM
 SCREENED INT.: 39.6- 48.6
 BEDROCK DEPTH: 48.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	25.800
CL	327000.000
CL6CP	<0.083
CLC6H5	6.590
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1730.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	169000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 37332
 AQUIFER: ALLUVIUM
 SCREENED INT.: 46.9- 51.4
 BEDROCK DEPTH: 51.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	4.500
BTZ	<2.000
C6H6	<1.340
CA	116000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	714000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	0.711
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	2540.000
HG	<0.240
ISODR	<0.060
K	3970.000
MEC6H5	<1.210
MG	> 200000.000
MIBK	<12.900
MXYLEN	<1.350
NA	501000.000
NIT	5130.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	393000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	131.000

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37333
 AQUIFER: ALLUVIUM
 SCREENED INT.: 38.4- 47.7
 BEDROCK DEPTH: 47.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	80100.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	13.500
CL	394000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	0.205
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.240
ISODR	<0.060
K	4740.000
MEC6H5	<1.210
MG	10500.000
MIBK	<12.900
MXYLEN	<1.350
NA	233000.000
NIT	3330.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	157000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 37334
 AQUIFER: ALLUVIUM
 SCREENED INT.: 42.3- 67.3
 BEDROCK DEPTH: 64.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	72000.000
CL6CP	<0.083
CLC6H5	3.710
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.169
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	<1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	64800.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37335
AQUIFER: ALLUVIUM
SCREENED INT.: 38.2- 57.6
BEDROCK DEPTH: 51.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	1.740
CA	69800.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	112000.000
CL6CP	<0.070
CLC6H5	8.550
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	0.065
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.240
ISODR	<0.060
K	2430.000
MEC6H5	<1.210
MG	13600.000
MIBK	<12.900
MXYLEN	<1.350
NA	80900.000
NIT	255.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	54400.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	39.800

WELL 37336
AQUIFER: ALLUVIUM
SCREENED INT.: 19.3- 38.9
BEDROCK DEPTH: 39.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	9.230
CL	225000.000
CL6CP	<0.083
CLC6H5	6.910
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.082
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1360.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	159000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37337
AQUIFER: ALLUVIUM
SCREENED INT.: 25.8- 40.3
BEDROCK DEPTH: 32.1
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	63000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.590
DLDRN	0.068
DMDS	<1.160
DMMP	<30.400
ENDRN	<0.060
ETC6H5	<0.620
FL	1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	123000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WELL 37338
AQUIFER: ALLUVIUM
SCREENED INT.: 6.8- 29.2
BEDROCK DEPTH: 23.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	1.490
CA	127000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	148000.000
CL6CP	<0.070
CLC6H5	8.370
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	0.062
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	1400.000
HG	<0.240
ISODR	<0.060
K	16000.000
MEC6H5	<1.210
MG	41900.000
MIBK	<12.900
MXYLEN	<1.350
NA	180000.000
NIT	1040.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	392000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	25.600

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37339 AQUIFER: ALLUVIUM
 SCREENED INT.: 11.7- 22.3
 BEDROCK DEPTH: 20.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	537000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	2020000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	515.000
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	4230.000
HG	<0.240
ISODR	<0.060
K	3510.000
MEC6H5	<1.210
MG	167000.000
MIBK	<12.900
MXYLEN	<1.350
NA	1060000.000
NIT	9230.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	2180000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	93.900

WELL 37340 AQUIFER: ALLUVIUM
 SCREENED INT.: 23.5- 34.1
 BEDROCK DEPTH: 32.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	.
AS	.
BTZ	.
C6H6	<1.340
CA	.
CCL4	<2.400
CD	.
CH2CL2	<5.000
CHCL3	<1.400
CL	.
CL6CP	.
CLC6H5	<0.580
CLDAN	.
CPMS	.
CPMSO	.
CPMSO2	.
CR	.
CU	.
DBCP	<0.130
DCPD	.
DIMP	.
DITH	.
DLDRN	.
DMDS	.
DMMP	.
ENDRN	.
ETC6H5	<1.280
FL	.
HG	.
ISODR	.
K	.
MEC6H5	<1.210
MG	.
MIBK	.
MXYLEN	<1.350
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	.
PPDDT	.
SO4	.
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37341
 AQUIFER: ALLUVIUM
 SCREENED INT.: 20.3- 50.7
 BEDROCK DEPTH: 48.0
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLF	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	65300.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	47500.000
CL6CP	<0.070
CLC6H5	2.420
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<30.400
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.480
ISODR	<0.060
K	4280.000
MEC6H5	<1.210
MG	13100.000
MIBK	<12.900
MXYLEN	<1.350
NA	60700.000
NIT	725.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	103000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 37342
 AQUIFER: ALLUVIUM
 SCREENED INT.: 12.9- 29.0
 BEDROCK DEPTH: 27.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLF	1.470
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	311000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	576000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	41.100
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	1460.000
HG	<0.240
ISODR	<0.060
K	6130.000
MEC6H5	<1.210
MG	74500.000
MIBK	<12.900
MXYLEN	<1.350
NA	444000.000
NIT	5650.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	883000.000
T12DCE	<1.200
TCLEE	2.200
TRCLE	<1.100
XYLEN	<2.470
ZN	82.900

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37343 AQUIFER: ALLUVIUM
 SCREENED INT.: 3.7- 35.1
 BEDROCK DEPTH: 35.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	2.240
ALDRN	<0.070
AS	3.900
BTZ	<2.000
C6H6	<1.340
CA	144000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	333000.000
CL6CP	<0.070
CLC6H5	8.930
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	26.700
DBCP	<0.130
DCPD	16.800
DIMP	966.000
DITH	1.830
DLDRN	<0.060
DMDS	<1.800
DMMP	<152.000
ENDRN	<0.052
ETC6H5	<1.280
FL	1600.000
HG	<0.240
ISODR	<0.060
K	4590.000
MEC6H5	<1.210
MG	54000.000
MIBK	<12.900
MXYLEN	<1.350
NA	270000.000
NIT	190.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	428000.000
T12DCE	1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	24.400

WELL 37344 AQUIFER: ALLUVIUM
 SCREENED INT.: 15.5- 40.9
 BEDROCK DEPTH: 42.0
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	13.700
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	1.720
CA	177000.000
CCL4	9.880
CD	<5.160
CH2CL2	<5.000
CHCL3	1370.000
CL	402000.000
CL6CP	<0.070
CLC6H5	6.530
CLDAN	.
CPMS	3.290
CPMSO	110.000
CPMSO2	<4.700
CR	<5.960
CU	22.100
DBCP	10.600
DCPD	<9.310
DIMP	1160.000
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<380.000
ENDRN	<0.052
ETC6H5	<1.280
FL	1350.000
HG	<0.480
ISODR	<0.060
K	4740.000
MEC6H5	<1.210
MG	48800.000
MIBK	<12.900
MXYLEN	<1.350
NA	292000.000
NIT	2670.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	495000.000
T12DCE	<1.200
TCLEE	115.000
TRCLE	7.060
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37345
AQUIFER: ALLUVIUM
SCREENED INT.: 16.4- 37.1
BEDROCK DEPTH: 37.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	74700.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	52000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	1270.000
HG	<0.240
ISODR	<0.060
K	1660.000
MEC6H5	<1.210
MG	16200.000
MIBK	<12.900
MXYLEN	<1.350
NA	69500.000
NIT	668.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	153000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	77.100

WELL 37346
AQUIFER: ALLUVIUM
SCREENED INT.: 8.6- 24.0
BEDROCK DEPTH: 24.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	91800.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	73900.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	52.200
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.240
ISODR	<0.060
K	3660.000
MEC6H5	<1.210
MG	17200.000
MIBK	<12.900
MXYLEN	<1.350
NA	71800.000
NIT	722.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	159000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	42.800

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37347
AQUIFER: ALLUVIUM
SCREENED INT.: 23.2- 33.8
BEDROCK DEPTH: 33.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	70500.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	55500.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	33.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.240
ISODR	<0.060
K	3050.000
MEC6H5	<1.210
MG	16000.000
MIBK	<12.900
MXYLEN	<1.350
NA	69500.000
NIT	1180.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	112000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	52.200

WELL 37348
AQUIFER: ALLUVIUM
SCREENED INT.: 16.4- 42.0
BEDROCK DEPTH: 41.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	148000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	189000.000
CL6CP	<0.070
CLC6H5	2.050
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	1470.000
HG	<0.480
ISODR	<0.060
K	2430.000
MEC6H5	<1.210
MG	35100.000
MIBK	<12.900
MXYLEN	<1.350
NA	124000.000
NIT	4010.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	334000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	34.600

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37349 AQUIFER: ALLUVIUM
SCREENED INT.: 23.2- 43.6
BEDROCK DEPTH: 44.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	181000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	277000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	456.000
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	1250.000
HG	<0.240
ISODR	<0.060
K	3050.000
MEC6H5	<1.210
MG	47100.000
MIBK	<12.900
MXYLEN	<1.350
NA	127000.000
NIT	6790.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	311000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	116.000

WELL 37350 AQUIFER: ALLUVIUM
SCREENED INT.: 26.9- 52.3
BEDROCK DEPTH: 52.5
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	114000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	2.120
CL	86100.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	16.600
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.480
ISODR	<0.060
K	3660.000
MEC6H5	<1.210
MG	30200.000
MIBK	<12.900
MXYLEN	<1.350
NA	83400.000
NIT	7010.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	218000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37351
 AQUIFER: ALLUVIUM
 SCREENED INT.: 17.9- 38.5
 BEDROCK DEPTH: 36.0
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	139000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	128000.000
CL6CP	<0.070
CLC6H5	<1.730
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	12.400
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<30.400
ENDRN	<0.052
ETC6H5	<1.280
FL	1690.000
HG	<0.480
ISODR	<0.060
K	1840.000
MEC6H5	<1.210
MG	38000.000
MIBK	<12.900
MXYLEN	<1.350
NA	135000.000
NIT	7890.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	206000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 37352
 AQUIFER: ALLUVIUM
 SCREENED INT.: 29.8- 38.3
 BEDROCK DEPTH: 37.9
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	112000.000
CCL4	<2.400
CD	<5.160
CH2CL2	9.970
CHCL3	<1.400
CL	82200.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	1380.000
HG	<0.240
ISODR	<0.060
K	<1260.000
MEC6H5	<1.210
MG	28200.000
MIBK	<12.900
MXYLEN	<1.350
NA	112000.000
NIT	3360.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	177000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	37.900

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37353 AQUIFER: ALLUVIUM
 SCREENED INT.: 27.1- 42.4
 BEDROCK DEPTH: 44.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	119000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	119000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DECP	<0.130
DCPD	<9.310
DIMP	103.000
DITH	<1.100
DLDRN	0.156
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.240
ISODR	<0.060
K	1690.000
MEC6H5	<1.210
MG	32500.000
MIBK	<12.900
MXYLEN	<1.350
NA	135000.000
NIT	4030.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	187000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	97.900

WELL 37354 AQUIFER: ALLUVIUM
 SCREENED INT.: 13.8- 49.1
 BEDROCK DEPTH: 49.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	1.510
CA	108000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	3.380
CL	87300.000
CL6CP	<0.070
CLC6H5	7.340
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DECP	<0.130
DCPD	<9.310
DIMP	13.100
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	1300.000
HG	<0.480
ISODR	<0.060
K	2150.000
MEC6H5	<1.210
MG	28200.000
MIBK	<12.900
MXYLEN	<1.350
NA	106000.000
NIT	7750.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	160000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	22.600

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37355 AQUIFER: ALLUVIUM
 SCREENED INT.: 11.1- 71.7
 BEDROCK DEPTH: 70.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	9.590
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	148000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	3.250
CL	196000.000
CL6CP	<0.070
CLC6H5	5.790
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	11.100
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	0.116
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	1640.000
HG	<0.240
ISODR	<0.060
K	2000.000
MEC6H5	<1.210
MG	37000.000
MIBK	<12.900
MXYLEN	<1.350
NA	157000.000
NIT	6270.000
OXAT	<2.000
PB	24.500
PPDDE	<0.053
PPDDT	<0.070
SO4	208000.000
T12DCE	<1.200
TCLEE	1.480
TRCLE	<1.100
XYLEN	<2.470
ZN	35.200

WELL 37356 AQUIFER: ALLUVIUM
 SCREENED INT.: 8.3- 38.4
 BEDROCK DEPTH: 38.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	106000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	95000.000
CL6CP	<0.070
CLC6H5	7.390
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	57.400
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.240
ISODR	<0.060
K	3390.000
MEC6H5	<1.210
MG	25900.000
MIBK	<12.900
MXYLEN	<1.350
NA	111000.000
NIT	4680.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	155000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	29.900

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37357
 AQUIFER: ALLUVIUM
 SCREENED INT.: 4.5- 19.7
 BEDROCK DEPTH: 19.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	121000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	24.300
CL	126000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	29.600
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.240
ISODR	<0.060
K	6640.000
MEC6H5	<1.210
MG	32900.000
MIBK	<12.900
MXYLEN	<1.350
NA	137000.000
NIT	10300.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	192000.000
T12DCE	<1.200
TCLEE	3.390
TRCLE	<1.100
XYLEN	<2.470
ZN	67.400

WELL 37358
 AQUIFER: ALLUVIUM
 SCREENED INT.: 44.3- 59.9
 BEDROCK DEPTH: 59.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	135000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	73800.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.240
ISODR	<0.060
K	2150.000
MEC6H5	<1.210
MG	15000.000
MIBK	<12.900
MXYLEN	<1.350
NA	73200.000
NIT	3460.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	123000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37359
 AQUIFER: ALLUVIUM
 SCREENED INT.: 23.2- 43.7
 BEDROCK DEPTH: 42.9
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	3.700
112TCE	<1.000
11DCE	<1.100
11DCLE	2.310
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	229000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	134000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.240
ISODR	<0.060
K	4470.000
MEC6H5	<1.210
MG	31800.000
MIBK	<12.900
MXYLEN	<1.350
NA	165000.000
NIT	9060.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	333000.000
T12DCE	1.260
TCLEE	3.950
TRCLE	5.130
XYLEN	<2.470
ZN	<20.100

WELL 37360
 AQUIFER: ALLUVIUM
 SCREENED INT.: 26.4-101.9
 BEDROCK DEPTH: 101.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	137000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	62200.000
CL6CP	<0.070
CLC6H5	7.520
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.240
ISODR	<0.060
K	2920.000
MEC6H5	<1.210
MG	14900.000
MIBK	<12.900
MXYLEN	<1.350
NA	71900.000
NIT	8900.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	132000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37361
 AQUIFER: ALLUVIUM
 SCREENED INT.: 21.7- 92.3
 BEDROCK DEPTH: 92.0
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

WELL 37362
 AQUIFER: ALLUVIUM
 SCREENED INT.: 34.5- 45.2
 BEDROCK DEPTH: 42.5
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	1.530
CA	120000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	62300.000
CL6CP	<0.070
CLC6H5	7.760
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.240
ISODR	<0.060
K	2000.000
MEC6H5	<1.210
MG	15600.000
MIBK	<12.900
MXYLEN	<1.350
NA	81100.000
NIT	7890.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	143000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	22.800

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	158000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	234000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	1770.000
HG	<0.240
ISODR	<0.060
K	2460.000
MEC6H5	<1.210
MG	53800.000
MIBK	<12.900
MXYLEN	<1.350
NA	314000.000
NIT	1700.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	449000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	55.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37363
 AQUIFER: ALLUVIUM
 SCREENED INT.: 6.9- 32.2
 BEDROCK DEPTH: 32.1
 BEDROCK LITH.: SS
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	105000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	98600.000
CL6CP	<0.070
CLC6H5	9.420
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.240
ISODR	<0.060
K	2460.000
MEC6H5	<1.210
MG	23600.000
MIBK	<12.900
MXYLEN	<1.350
NA	111000.000
NIT	870.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	180000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WELL 37364
 AQUIFER: ALLUVIUM
 SCREENED INT.: 6.8- 27.3
 BEDROCK DEPTH: 28.9
 BEDROCK LITH.: SH
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	6.200
BTZ	<2.000
C6H6	<1.340
CA	36200.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	31800.000
CL6CP	<0.070
CLC6H5	4.690
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	1200.000
HG	<0.240
ISODR	<0.060
K	4160.000
MEC6H5	<1.210
MG	7410.000
MIBK	<12.900
MXYLEN	<1.350
NA	57400.000
NIT	1280.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	70100.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37366
AQUIFER: ALLUVIUM
SCREENED INT.: 2.2- 17.2
BEDROCK DEPTH: 20.0
BEDROCK LITH.: SS
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	137000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	45200.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	0.072
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.240
ISODR	<0.060
K	3850.000
MEC6H5	<1.210
MG	25600.000
MIBK	<12.900
MXYLEN	<1.350
NA	127000.000
NIT	7240.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	106000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	72.000

WELL 37367
AQUIFER: ALLUVIUM
SCREENED INT.: 11.5- 38.4
BEDROCK DEPTH: 38.5
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	2.920
CA	158000.000
CCL4	<1.690
CD	<5.160
CH2CL2	<2.480
CHCL3	127.000
CL	201000.000
CL6CP	<0.083
CLC6H5	9.230
CLDAN	<0.152
CPMS	4.160
CPMSO	113.000
CPMSO2	4.310
CR	<5.960
CU	<7.940
DBCP	2.570
DCPD	<9.310
DIMP	397.000
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2050.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	50900.000
MIBK	<12.900
MXYLEN	<1.040
NA	265000.000
NIT	2820.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	578000.000
T12DCE	<1.750
TCLEE	35.800
TRCLE	4.100
XYLEN	<1.340
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37368
AQUIFER: ALLUVIUM
SCREENED INT.: 18.1- 34.3
BEDROCK DEPTH: 34.0
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	2.560
BTZ	<1.140
C6H6	2.630
CA	367000.000
CCL4	<1.690
CD	<5.160
CH2CL2	<2.480
CHCL3	29.900
CL	690000.000
CL6CP	<0.083
CLC6H5	11.500
CLDAN	<0.152
CPMS	<1.080
CPMSO	3.430
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	1.110
DCPD	<9.310
DIMP	55.700
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2580.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	96500.000
MIBK	<12.900
MXYLEN	<1.040
NA	384000.000
NIT	9020.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	784000.000
T12DCE	<1.750
TCLEE	16.000
TRCLE	1.930
XYLEN	<1.340
ZN	<20.100

WELL 37369
AQUIFER: ALLUVIUM
SCREENED INT.: 4.1- 25.2
BEDROCK DEPTH: 25.5
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	3.000
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	210000.000
CL6CP	<0.083
CLC6H5	8.880
CLDAN	<0.152
CPMS	<1.080
CPMSO	8.590
CPMSO2	4.110
CR	.
CU	.
DBCP	<0.130
DCPD	59.400
DIMP	251.000
DITH	<3.340
DLDRN	0.333
DMDS	<1.160
DMMP	<76.000
ENDRN	0.428
ETC6H5	<0.620
FL	2690.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	391000.000
T12DCE	<1.750
TCLEE	8.960
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37370 AQUIFER: ALLUVIUM
 SCREENED INT.: 4.4- 25.8
 BEDROCK DEPTH: 25.8
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

WELL 37371 AQUIFER: DENVER
 SCREENED INT.: 28.3- 39.0
 BEDROCK DEPTH: 26.0
 BEDROCK LITH.:
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	2.720
BTZ	<1.140
C6H6	8.430
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	568000.000
CL6CP	<0.083
CLC6H5	27.300
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.230
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	278.000
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<76.000
ENDRN	<0.060
ETC6H5	<0.620
FL	2550.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	899000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	2.650
XYLEN	<1.340
ZN	.

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	231000.000
CCL4	<1.690
CD	<5.160
CH2CL2	<2.480
CHCL3	<1.880
CL	467000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	1100.000
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2590.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	61900.000
MIBK	<12.900
MXYLEN	<1.040
NA	428000.000
NIT	838.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	700000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37372 AQUIFER: DENVER
 SCREENED INT.: 61.5- 88.5
 BEDROCK DEPTH: 26.0
 BEDROCK LITH.:
 SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	10.300
CA	.
CCL4	<1.690
CD	.
CH2CL2	.
CHCL3	<1.880
CL	57800.000
CL6CP	<0.083
CLC6H5	42.400
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.230
CR	.
CU	.
DBCP	0.207
DCPD	<9.310
DIMP	.
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	.
ENDRN	<0.060
ETC6H5	<0.620
FL	2350.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	370000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	2.830
XYLEN	<1.340
ZN	.

WELL 37373 AQUIFER: ALLUVIUM
 SCREENED INT.: 4.3- 25.7
 BEDROCK DEPTH: 25.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	18.200
ALDRN	<0.083
AS	3.650
BTZ	<1.140
C6H6	<1.920
CA	329000.000
CCL4	<1.690
CD	<5.160
CH2CL2	<2.480
CHCL3	<1.880
CL	744000.000
CL6CP	<0.083
CLC6H5	3.560
CLDAN	<0.152
CPMS	<1.080
CPMSO	4.090
CPMSO2	16.100
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	430.000
DIMP	.
DITH	19.300
DLDRN	<0.054
DMDS	<1.160
DMMP	.
ENDRN	<0.060
ETC6H5	<0.620
FL	2620.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	108000.000
MIBK	<12.900
MXYLEN	<1.040
NA	589000.000
NIT	59.600
OXAT	5.100
PB	<18.600
PPDDE	0.113
PPDDT	0.110
SO4	921000.000
T12DCE	<1.750
TCLEE	15.700
TRCLE	3.570
XYLEN	<1.340
ZN	29.800

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37374
 AQUIFER: ALLUVIUM
 SCREENED INT.: 8.7- 24.9
 BEDROCK DEPTH: 26.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	2.790
BTZ	<1.140
C6H6	2.680
CA	557000.000
CCL4	<1.690
CD	<5.160
CH2CL2	<2.480
CHCL3	2.930
CL	386000.000
CL6CP	<0.083
CLC6H5	13.300
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	445.000
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	4170.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	160000.000
MIBK	<12.900
MXYLEN	<1.040
NA	754000.000
NIT	938.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	2140000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	<20.100

WELL 37376
 AQUIFER: DENVER
 SCREENED INT.: 40.3- 51.0
 BEDROCK DEPTH: 31.0
 BEDROCK LITH.:
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	3.640
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	14800.000
CL6CP	<0.083
CLC6H5	33.000
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	<1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	192000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	1.380
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37377
 AQUIFER: ALLUVIUM
 SCREENED INT.: 22.7- 38.9
 BEDROCK DEPTH: 39.5
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

WELL 37378
 AQUIFER: ALLUVIUM
 SCREENED INT.: 23.8- 34.7
 BEDROCK DEPTH: 35.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	5.800
CA	151000.000
CCL4	<1.690
CD	<5.160
CH2CL2	<2.480
CHCL3	2.250
CL	165000.000
CL6CP	<0.083
CLC6H5	22.700
CLDAN	<0.152
CPMS	<1.080
CPMSO	3.070
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	63.100
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2340.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	56900.000
MIBK	<12.900
MXYLEN	<1.040
NA	229000.000
NIT	697.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	506000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	1.710
XYLEN	<1.340
ZN	29.400

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	2.680
BTZ	<1.140
C6H6	3.140
CA	113000.000
CCL4	<1.690
CD	<5.160
CH2CL2	<2.480
CHCL3	<1.880
CL	104000.000
CL6CP	<0.083
CLC6H5	12.600
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<3.340
DLDRN	0.073
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1360.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	36800.000
MIBK	<12.900
MXYLEN	<1.040
NA	173000.000
NIT	1350.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	327000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37379 AQUIFER: DENVER
 SCREENED INT.: 39.3- 55.5
 BEDROCK DEPTH: 27.0
 BEDROCK LITH.:
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	5.760
CA	272000.000
CCL4	<1.690
CD	<5.160
CH2CL2	<2.480
CHCL3	<1.880
CL	418000.000
CL6CP	<0.083
CLC6H5	17.800
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	47.100
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	3000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	41900.000
MIBK	<12.900
MXYLEN	<1.040
NA	729000.000
NIT	2070.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1450000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	1.370
XYLEN	<1.340
ZN	210.000

WELL 37380 AQUIFER: DENVER
 SCREENED INT.: 64.3- 75.0
 BEDROCK DEPTH: 27.0
 BEDROCK LITH.:
 SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	3.650
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	412000.000
CL6CP	<0.083
CLC6H5	15.400
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	0.191
DCPD	<9.310
DIMP	<10.500
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2100.000
HG	<0.359
ISODR	<0.056
K	5580.000
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	1100000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37381 AQUIFER: ALLUVIUM
SCREENED INT.: 7.3- 28.5
BEDROCK DEPTH: 28.0
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	600000.000
CCL4	<1.690
CD	8.580
CH2CL2	<2.480
CHCL3	<1.880
CL	1060000.000
CL6CP	<0.083
CLC6H5	2.680
CLDAN	<0.152
CPMS	<1.080
CPMSO	3.640
CPMSO2	<2.240
CR	52.400
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	.
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	.
ENDRN	<0.060
ETC6H5	<0.620
FL	3650.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	148000.000
MIBK	<12.900
MXYLEN	<1.040
NA	504000.000
NIT	.
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	1420000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	40.900

WELL 37383 AQUIFER: ALLUVIUM
SCREENED INT.: 17.6- 39.0
BEDROCK DEPTH: 50.0
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	3.170
CA	162000.000
CCL4	<1.690
CD	<5.160
CH2CL2	<2.480
CHCL3	<1.880
CL	131000.000
CL6CP	<0.083
CLC6H5	11.400
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	51.300
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	1580.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	49900.000
MIBK	<12.900
MXYLEN	<1.040
NA	233000.000
NIT	2230.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	570000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	<20.100

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37387
 AQUIFER: DENVER
 SCREENED INT.: 36.8- 42.6
 BEDROCK DEPTH: 17.0
 BEDROCK LITH.:
 SCREENED ZONE: 2

WELL 37388
 AQUIFER: DENVER
 SCREENED INT.: 69.8- 86.0
 BEDROCK DEPTH: 17.0
 BEDROCK LITH.:
 SCREENED ZONE: 4

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	73.800
CA	206000.000
CCL4	<1.690
CD	<5.160
CH2CL2	<2.480
CHCL3	8.620
CL	303000.000
CL6CP	<0.083
CLC6H5	74.700
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	8.140
CU	<7.940
DBCP	0.779
DCPD	<9.310
DIMP	<10.500
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	1.320
FL	3220.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	35600.000
MIBK	<12.900
MXYLEN	1.370
NA	1170000.000
NIT	17200.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	2350000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	8.680
XYLEN	3.600
ZN	<20.100

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	10.100
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	403000.000
CL6CP	<0.083
CLC6H5	32.800
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.230
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2650.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	1580000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	1.830
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37389 AQUIFER: ALLUVIUM
 SCREENED INT.: 8.4- 35.2
 BEDROCK DEPTH: 23.5
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

WELL 37390 AQUIFER: DENVER
 SCREENED INT.: 40.1- 46.0
 BEDROCK DEPTH: 23.5
 BEDROCK LITH.:
 SCREENED ZONE: 3

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	<1.920
CA	141000.000
CCL4	<1.690
CD	<5.160
CH2CL2	<2.480
CHCL3	56.500
CL	217000.000
CL6CP	<0.083
CLC6H5	2.740
CLDAN	<0.152
CPMS	<1.080
CPMSO	9.520
CPMSO2	5.490
CR	<5.960
CU	<7.940
DBCP	0.400
DCPD	<9.310
DIMP	343.000
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<15.200
ENDRN	<0.060
ETC6H5	<0.620
FL	2190.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	53800.000
MIBK	<12.900
MXYLEN	<1.040
NA	219000.000
NIT	163.000
OXAT	<1.350
PB	<18.600
PPDDE	<0.046
PPDDT	<0.059
SO4	405000.000
T12DCE	<1.750
TCLEE	28.500
TRCLE	<1.310
XYLEN	<1.340
ZN	21.200

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	<2.500
BTZ	<1.140
C6H6	8.500
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	<1.880
CL	55700.000
CL6CP	<0.083
CLC6H5	23.700
CLDAN	<0.152
CPMS	<1.080
CPMSO	<1.980
CPMSO2	<2.240
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	.
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	.
ENDRN	<0.060
ETC6H5	<0.620
FL	<1000.000
HG	.
ISODR	<0.056
K	.
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	242000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	<1.340
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL 37391
 AQUIFER: ALLUVIUM
 SCREENED INT.: 19.7- 41.1
 BEDROCK DEPTH: 40.0
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	2.260
ALDRN	<0.083
AS	3.320
BTZ	<1.140
C6H6	<1.920
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	79.300
CL	390000.000
CL6CP	<0.083
CLC6H5	<1.360
CLDAN	<0.152
CPMS	3.260
CPMSO	148.000
CPMSO2	5.920
CR	.
CU	.
DBCP	4.690
DCPD	<9.310
DIMP	> 2030.000
DITH	<3.340
DLDRN	<0.054
DMDS	<1.160
DMMP	<16.300
ENDRN	<0.060
ETC6H5	<0.620
FL	2070.000
HG	<0.500
ISODR	<0.056
K	4840.000
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	<1.040
NA	.
NIT	.
OXAT	<1.350
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	174000.000
T12DCE	<1.750
TCLEE	92.000
TRCLE	2.200
XYLEN	<1.340
ZN	.

WELL 37392
 AQUIFER: ALLUVIUM
 SCREENED INT.: 13.2- 29.4
 BEDROCK DEPTH: 28.1
 BEDROCK LITH.:
 SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.090
112TCE	<1.630
11DCE	<1.850
11DCLE	<1.930
12DCLE	<2.070
ALDRN	<0.083
AS	.
BTZ	.
C6H6	15.100
CA	.
CCL4	<1.690
CD	.
CH2CL2	<2.480
CHCL3	115.000
CL	112000.000
CL6CP	<0.203
CLC6H5	8.410
CLDAN	<0.152
CPMS	0.675
CPMSO	.
CPMSO2	4.490
CR	.
CU	.
DBCP	<0.130
DCPD	<9.310
DIMP	29.000
DITH	1.250
DLDRN	0.095
DMDS	.
DMMP	<16.300
ENDRN	0.234
ETC6H5	1.420
FL	1980.000
HG	<0.500
ISODR	<0.056
K	2910.000
MEC6H5	<2.100
MG	.
MIBK	<12.900
MXYLEN	1.140
NA	.
NIT	.
OXAT	.
PB	.
PPDDE	<0.046
PPDDT	<0.059
SO4	427000.000
T12DCE	<1.750
TCLEE	<2.760
TRCLE	<1.310
XYLEN	1.940
ZN	.

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL BOLLER
AQUIFER: ALLUVIUM
SCREENED INT.: 0.0- 0.0
BEDROCK DEPTH: 0.0
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	198000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	18.400
CL	177000.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	10.100
CR	<5.960
CU	<7.940
DBCP	0.187
DCPD	<9.310
DIMP	133.000
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	1280.000
HG	<0.480
ISODR	<0.060
K	2150.000
MEC6H5	<1.210
MG	55500.000
MIBK	<12.900
MXYLEN	<1.350
NA	281000.000
NIT	2780.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	615000.000
T12DCE	<1.200
TCLEE	5.720
TRCLE	1.250
XYLEN	<2.470
ZN	131.000

WELL CIII
AQUIFER: ALLUVIUM
SCREENED INT.: 0.0- 0.0
BEDROCK DEPTH: 58.0
BEDROCK LITH.: SH
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	167000.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	91700.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.480
ISODR	<0.060
K	2610.000
MEC6H5	<1.210
MG	17800.000
MIBK	<12.900
MXYLEN	<1.350
NA	89300.000
NIT	9440.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	197000.000
T12DCE	<1.200
TCLEE	1.830
TRCLE	5.410
XYLEN	<2.470
ZN	66.900

WRIR WATER CHEMISTRY SUMMARY, 3RD QUARTER, FY87

WELL
XII
AQUIFER: ALLUVIUM
SCREENED INT.: 0.0- 0.0
BEDROCK DEPTH: 0.0
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	91600.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	72800.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	18.900
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	<1220.000
HG	<0.480
ISODR	<0.060
K	1840.000
MEC6H5	<1.210
MG	24100.000
MIBK	<12.900
MXYLEN	<1.350
NA	108000.000
NIT	3740.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	130000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	49.200

WELL
XXIA
AQUIFER: ALLUVIUM
SCREENED INT.: 0.0- 0.0
BEDROCK DEPTH: 0.0
BEDROCK LITH.:
SCREENED ZONE: ALLUVIUM

COMPOUND	CONCENTRATION
111TCE	<1.700
112TCE	<1.000
11DCE	<1.100
11DCLE	<1.200
12DCLE	<0.610
ALDRN	<0.070
AS	<3.070
BTZ	<2.000
C6H6	<1.340
CA	83800.000
CCL4	<2.400
CD	<5.160
CH2CL2	<5.000
CHCL3	<1.400
CL	60300.000
CL6CP	<0.070
CLC6H5	<0.580
CLDAN	.
CPMS	<1.300
CPMSO	<4.200
CPMSO2	<4.700
CR	<5.960
CU	<7.940
DBCP	<0.130
DCPD	<9.310
DIMP	<10.500
DITH	<1.100
DLDRN	<0.060
DMDS	<1.800
DMMP	<15.200
ENDRN	<0.052
ETC6H5	<1.280
FL	1320.000
HG	<0.480
ISODR	<0.060
K	1690.000
MEC6H5	<1.210
MG	23000.000
MIBK	<12.900
MXYLEN	<1.350
NA	91300.000
NIT	3450.000
OXAT	<2.000
PB	<18.600
PPDDE	<0.053
PPDDT	<0.070
SO4	115000.000
T12DCE	<1.200
TCLEE	<1.300
TRCLE	<1.100
XYLEN	<2.470
ZN	161.000

APPENDIX D.2: EPA CHEMISTRY DATA

EPA WATER CHEMISTRY SUMMARY

WELL:EPA001

EPA LOCID:198DW001001

SAMPLE DATE:12/16/85

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	< 5.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<10.00
CL6CP	<10.00
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
DIMP	< 1.00
DBCP	< 0.004

EPA WATER CHEMISTRY SUMMARY

WELL:EPA004

EPA LOCID:198DW004001

SAMPLE DATE:12/17/85

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	9.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	68.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<10.00
CL6CP	<10.00
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
DIMP	< 1.00
DECP	< 0.004

EPA WATER CHEMISTRY SUMMARY

WELL:EPA005

LOCID:198DW005001

SAMPLE DATE:12/17/85

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	< 5.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<10.00
CL6CP	<10.00
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
DIMP	< 1.00
DBCP	< 0.004

EPA WATER CHEMISTRY SUMMARY

WELL:EPA006

EPA LOCID:198DW006001

SAMPLE DATE:12/17/85

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	12.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<10.00
CL6CP	<10.00
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
DIMP	< 1.00
DBCP	< 0.004

EPA WATER CHEMISTRY SUMMARY

WELL:EPA007

EPA LOCID:198DW007001

SAMPLE DATE:12/17/85

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	6.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	10.00
CCL4	< 5.00
TRCLE	55.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	12.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<10.00
CL6CP	<10.00
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
DIMP	< 1.00
DBCP	< 0.004

EPA WATER CHEMISTRY SUMMARY

WELL:EPA008

EPA LOCID:198DW008001

SAMPLE DATE:12/17/85

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	10.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	92.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<10.00
CL6CP	<10.00
ALDRN	< 0.05
DLDRN	< 0.10
FPDDE	< 0.10
ENDRN	< 0.10
FPDDT	< 0.10
CLDAN	< 0.50
DBCP	< 0.004

EPA WATER CHEMISTRY SUMMARY

WELL:EPA011

EPA LOCID:198DW011001

SAMPLE DATE:12/18/85

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	7.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<10.00
DIMP	< 3.50
CL6CP	<10.00
DBCP	< 0.00
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50

EPA WATER CHEMISTRY SUMMARY

WELL:EPA010

EPA LOCID:198DW010001

SAMPLE DATE:12/18/85

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	6.00
T12DCE	10.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	58.00
CCL4	< 5.00
TRCLE	55.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	15.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<10.00
DIMP	< 3.50
CL6CP	<10.00
DBCP	< 0.00
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50

EPA WATER CHEMISTRY SUMMARY

WELL:EPA013

EPA LOCID:198DW013001

SAMPLE DATE:12/18/85

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	< 5.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<10.00
DIMP	< 3.50
CL6CP	<10.00
DECP	< 0.00
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50

EPA WATER CHEMISTRY SUMMARY

WELL:EPA017

EPA LOCID:198DW017001

SAMPLE DATE:12/19/85

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	< 5.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 0.50
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<10.00
DIMP	< 3.50
CL6CP	<10.00
DBCP	< 0.00
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50

EPA WATER CHEMISTRY SUMMARY

WELL:EPA019

EPA LOCID:198DW019001

SAMPLE DATE:12/19/85

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	7.00
T12DCE	6.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	8.00
CCL4	< 5.00
TRCLE	10.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	8.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<10.00
DIMP	< 3.50
CL6CP	<10.00
DBCP	0.089
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50

EPA WATER CHEMISTRY SUMMARY

WELL:EPA020

EPA LOCID:198DW020001

SAMPLE DATE:12/20/85

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	6.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	7.00
CCL4	< 5.00
TRCLE	12.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	8.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<10.00
DIMP	< 3.50
CL6CP	<10.00
DBCP	< 0.00
ALDRN	< 0.05
DLDRN	< 0.10
FPDDE	< 0.10
ENDRN	< 0.10
FPDDT	< 0.10
CLDAN	< 0.50

EPA WATER CHEMISTRY SUMMARY

WELL:EPA021

EPA LOCID:198DW021001

SAMPLE DATE:12/20/85

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	< 5.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<10.00
DIMP	< 5.50
CL6CP	<10.00
DBCP	< 0.00
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50

EPA WATER CHEMISTRY SUMMARY

WELL:EPA025

EPA LOCID:198DW025001

SAMPLE DATE:01/13/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 6.00
CCL4	< 6.00
TRCLE	< 5.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25
DIMP	< 10.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA023

EPA LOCID:198DW023001

SAMPLE DATE:01/14/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 6.00
CCL4	< 6.00
TRCLE	< 5.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25
DIMP	< 10.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA024

EPA LOCID:198DW024001

SAMPLE DATE:01/14/86

COMPOUND	CONCENTRATION
CH2CL2	< 8.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	6.00
TRCLE	< 5.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PFDDT	< 0.02
CLDAN	< 0.25
DIMP	< 10.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA026

EPA LOCID:198DW026001

SAMPLE DATE:01/13/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	9.00
CCL4	< 6.00
TRCLE	39.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	11.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25
DIMP	< 10.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA028

EPA LOCID:198DW028001

SAMPLE DATE:01/13/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 6.00
TRCLE	19.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25
DIMP	< 10.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA029

EPA LOCID:198DW029001

SAMPLE DATE:01/13/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 6.00
CCL4	< 6.00
TRCLE	< 5.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 10.00
DECP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25
DIMP	< 10.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA030

EPA LOCID:198DW030001

SAMPLE DATE:01/15/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	7.00
11DCLE	8.00
T12DCE	6.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	11.00
CCL4	6.00
TRCLE	22.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	15.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PFDDT	< 0.02
CLDAN	< 0.25
DIMP	< 10.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA031

EPA LOCID:198DW031001

SAMPLE DATE:01/15/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	14.00
T12DCE	9.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 6.00
CCL4	< 6.00
TRCLE	6.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25
DIMP	< 10.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA052

EPA LOCID:198DW052001

SAMPLE DATE:01/20/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 6.00
TRCLE	7.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 10.00
DECP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
FPDDE	< 0.01
ENDRN	< 0.01
PFDDT	< 0.02
CLDAN	< 0.25
TCLEE	< 285.00
DIMP	< 10.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA045

EPA LOCID:198DW045001

SAMPLE DATE:01/17/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 6.00
TRCLE	< 5.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
DIMP	< 10.00
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
CLDAN	< 0.25
CL6CP	< 10.00
DBCP	< 0.11

EPA WATER CHEMISTRY SUMMARY

WELL:EPA046

EPA LOCID:198DW046001

SAMPLE DATE:01/17/86

COMPOUND	CONCENTRATION
CL6CP	<10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PTDDT	< 0.02
CLDAN	< 0.25
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	< 5.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
DIMP	<10.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA048

EPA LOCID:198DW048001

SAMPLE DATE:01/17/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	10.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	6.00
CCL4	< 6.00
TRCLE	84.00
112TCE	< 6.00
C6H6	< 5.00
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25
TCL EE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
DIMP	< 10.00
CL6CP	< 10.00
DBCP	< 0.11

EPA WATER CHEMISTRY SUMMARY

WELL:EPA047

EPA LOCID:198DW047001

SAMPLE DATE:01/17/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 6.00
TRCLE	6.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
DIMP	<10.00
CL6CP	<10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25

EPA WATER CHEMISTRY SUMMARY

WELL:EPA051

EPA LOCID:198DW051001

SAMPLE DATE:01/20/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	12.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	10.00
CCl4	< 6.00
TRCLE	88.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	9.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
DIMP	<10.00
ALDRN	< 0.01
DLDRN	< 0.01
FPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25
CL6CP	<10.00
DECP	< 0.11
TCLEE	<276.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA032

EPA LOCID:198DW032001

SAMPLE DATE:01/15/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 6.00
CCL4	< 6.00
TRCLE	13.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
DIMP	<10.00
CL6CP	<10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25

EPA WATER CHEMISTRY SUMMARY

WELL:EPA033

EPA LOCID:198DW033001

SAMPLE DATE:01/14/86

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 3.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 6.00
TRCLE	6.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
DIMP	<10.00
CL6CP	<10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25

EPA WATER CHEMISTRY SUMMARY

WELL:EPA034

EPA LOCID:198DW034001

SAMPLE DATE:01/14/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	7.00
CCL4	< 6.00
TRCLE	8.00
112TCE	6.00
C6H6	< 1.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
DIMP	<10.00
CL6CP	<10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25

EPA WATER CHEMISTRY SUMMARY

WELL:EPA035

EPA LOCID:198DW035001

SAMPLE DATE:01/16/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	9.00
11DCLE	10.00
T12DCE	13.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	20.00
CCL4	< 6.00
TRCLE	23.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	17.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	<12.00
DIMP	<10.00
CL6CP	<10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25

EPA WATER CHEMISTRY SUMMARY

WELL:EPA036

EPA LOCID:198DW036001

SAMPLE DATE:01/16/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	11.00
11DCLE	10.00
T12DCE	15.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	26.00
CCL4	< 6.00
TRCLE	91.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	15.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 9.00
DIMP	<10.00
CL6CP	<10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.01
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25

EPA WATER CHEMISTRY SUMMARY

WELL:EPA037

EPA LOCID:198DW037001

SAMPLE DATE:01/16/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	9.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	48.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 2.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
DIMP	<10.00
CL6CP	<10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.02
PPDDE	< 0.01
ENDRN	< 0.01
FPDDT	< 0.02
CLDAN	< 0.25

EPA WATER CHEMISTRY SUMMARY

WELL:EPA038

EPA LOCID:198DW038001

SAMPLE DATE:01/16/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 6.00
CCL4	< 6.00
TRCLE	< 5.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
DIMP	<10.00
CL6CP	<10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	0.02
PPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25

EPA WATER CHEMISTRY SUMMARY

WELL:EPA053

EPA LOCID:198DW053001

SAMPLE DATE:01/20/86

COMPOUND	CONCENTRATION
CH2CL2	< 6.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 6.00
CCL4	11.00
TRCLE	< 5.00
112TCE	< 6.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
DIMP	<10.00
CL6CP	<10.00
DBCP	< 0.11
ALDRN	< 0.01
DLDRN	< 0.10
FPDDE	< 0.01
ENDRN	< 0.01
PPDDT	< 0.02
CLDAN	< 0.25

EPA WATER CHEMISTRY SUMMARY

WELL:EPA076

EPA LOCID:198DW076001

SAMPLE DATE:06/05/86

COMPOUND	CONCENTRATION
CH2CL2	< 3.00
11DCE	11.00
11DCLE	11.00
T12DCE	16.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	25.00
CCL4	< 5.00
TRCLE	110.00
112TCF	< 5.00
C6H6	< 5.00
TCLEE	21.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<15.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	<123.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA055

EPA LOCID:198DW055001

SAMPLE DATE:05/30/86

COMPOUND	CONCENTRATION
CH2CL2	< 2.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	7.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<15.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	<123.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA056

EPA LOCID:198DW056001

SAMPLE DATE:05/30/86

COMPOUND	CONCENTRATION
CH2CL2	< 3.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	34.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<15.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	<123.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA058

EPA LOCID:198DW058001

SAMPLE DATE:06/02/86

COMPOUND	CONCENTRATION
CH2CL2	< 2.00
11DCE	< 5.00
11DCLE	6.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	9.00
CCL4	< 5.00
TRCLE	33.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	12.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<15.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	<123.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA059

EPA LOCID:198DW059001

SAMPLE DATE:06/02/86

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 5.00
11DCLE	6.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	8.00
CCL4	< 5.00
TRCLE	15.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	11.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	< 123.00
CL6CP	< 15.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA060

EPA LOCID:198DW060001

SAMPLE DATE:06/20/86

COMPOUND	CONCENTRATION
CH2CL2	< 2.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	12.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	6.00
CCL4	< 5.00
TRCLE	53.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<15.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	<123.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA062

EPA LOCID:198DW062001

SAMPLE DATE:06/03/86

COMPOUND	CONCENTRATION
CH2CL2	< 2.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	38.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<15.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	<123.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA063

EPA LOCID:198DW063001

SAMPLE DATE:06/03/86

COMPOUND	CONCENTRATION
CH2CL2	< 2.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	14.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	120.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<15.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	<123.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA066

EPA LOCID:198DW066001

SAMPLE DATE:06/03/86

COMPOUND	CONCENTRATION
CL6CP	<15.00
CH2CL2	< 2.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	23.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	<123.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA068

EPA LOCID:198DW068001

SAMPLE DATE:06/04/86

COMPOUND	CONCENTRATION
CH2CL2	< 2.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	< 5.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 15.00
ALDRN	< 0.20
DLDRN	< 0.30
PPODE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	< 123.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA069

EPA LOCID:198DW069001

SAMPLE DATE:06/04/86

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 5.00
11DCLE	6.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	< 5.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<15.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	<123.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA071

EPA LOCID:198DW071001

SAMPLE DATE:06/05/86

COMPOUND	CONCENTRATION
CH2CL2	< 1.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	< 5.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 15.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
FPDDT	< 5.00
CLDAN	< 123.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA072

EPA LOCID:198DW072001

SAMPLE DATE:06/05/86

COMPOUND	CONCENTRATION
CH2CL2	< 1.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	6.00
CCL4	< 5.00
TRCLE	56.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	7.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<15.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	<123.00

EPA WATER CHEMISTRY SUMMARY

WELL: EPA073

EPA LOCID: 198DW073001

SAMPLE DATE: 06/05/86

COMPOUND	CONCENTRATION
CH2CL2	< 2.00
11DCE	7.00
11DCLE	10.00
T12DCE	13.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	17.00
CCL4	< 5.00
TRCLE	16.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	16.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 15.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	< 123.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA067

EPA LOCID:198DW067001

SAMPLE DATE:06/04/86

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 5.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	8.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 15.00
ALDRN	< 0.20
DLDRN	< 0.30
PPDDE	< 0.30
ENDRN	< 0.40
PPDDT	< 5.00
CLDAN	< 123.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA012M

EPA LOCID:198MW012010

SAMPLE DATE:02/24/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	< 4.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	6.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA010

EPA LOCID:198DW010002

SAMPLE DATE:03/03/87

COMPOUND	CONCENTRATION
11DCE	1.20
11DCLE	10.00
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	95.00
TRCLE	100.00
TCLEE	7.20
C6H6	< 1.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA019

EPA LOCID:198DW019002

SAMPLE DATE:03/03/87

COMPOUND	CONCENTRATION
11DCE	7.00
11DCLE	11.00
112DCE	< 0.50
CHCL3	1.40
111TCE	14.00
TRCLE	13.00
TCLEE	14.00
C6H6	< 1.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA063

EPA LOCID:198DW063002

SAMPLE DATE:03/02/87

COMPOUND	CONCENTRATION
11DCE	< 0.50
11DCLE	< 0.50
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	< 0.50
TRCLE	19.00
TCLEE	< 0.50
C6H6	< 1.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA073

EPA LOCID:198DW073002

SAMPLE DATE:03/03/87

COMPOUND	CONCENTRATION
11DCE	6.50
11DCLE	11.00
T12DCE	< 0.50
CHCL3	1.40
111TCE	13.00
TRCLE	12.00
TCLEE	8.80
C6H6	< 1.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA077

EPA LOCID:198DW077001

SAMPLE DATE:03/03/87

COMPOUND	CONCENTRATION
11DCE	2.80
11DCLE	2.40
T12DCE	< 0.50
CHCL3	0.81
111TCE	6.00
TRCLE	83.00
TCLEE	4.40
C6H6	< 1.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA010

EPA LOCID:198DW010003

SAMPLE DATE:03/03/87

COMPOUND	CONCENTRATION
11DCE	1.00
11DCLE	9.40
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	92.00
TRCLE	95.00
TCLEE	6.60
C6H6	< 1.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA008G

EPA LOCID:198GW008011

SAMPLE DATE:02/25/87

COMPOUND	CONCENTRATION
11DCE	< 0.50
11DCLE	< 0.50
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	0.73
TRCLE	3.00
TCLEE	0.85
C6H6	< 0.50
DIMP	< 2.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL: EPA009G

EPA LOCID: 198GW009013

SAMPLE DATE: 02/26/87

COMPOUND	CONCENTRATION
11DCE	0.66
11DCLE	0.95
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	< 0.50
TRCLE	29.00
TCLEE	1.50
C6H6	< 1.00
DIMP	< 2.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:HPA010G

EPA LOCID:198GW010011

SAMPLE DATE:02/26/87

COMPOUND	CONCENTRATION
11DCE	< 0.50
11DCLE	< 0.50
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	< 0.50
TRCLE	2.30
TCLEE	1.10
C6H6	< 1.00
DIMP	< 2.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA011G

EPA LOCID:198GW011009

SAMPLE DATE:02/26/87

COMPOUND	CONCENTRATION
11DCE	< 0.50
11DCLE	< 0.50
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	< 0.50
TRCLE	< 0.50
TCLEE	< 0.50
C6H6	< 1.00
DIMP	< 2.00
PCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA012G

EPA LOCID:198G012012

SAMPLE DATE:02/27/87

COMPOUND	CONCENTRATION
11DCE	0.90
11DCLE	< 0.50
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	< 0.50
TRCLE	35.00
TCLEE	0.60
C6H6	< 1.00
DIMP	< 2.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA014G

EPA LOCID:198GW014009

SAMPLE DATE:02/27/87

COMPOUND	CONCENTRATION
11DCE	< 0.50
11DCLE	< 0.50
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	< 0.50
TRCLE	8.50
TCLEE	120.00
C6H6	< 1.00
DIMP	< 2.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA015G

EPA LOCID:198GW015011

SAMPLE DATE:02/27/87

COMPOUND	CONCENTRATION
11DCE	1.30
11DCLE	< 0.50
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	< 0.50
TRCLE	12.00
TCLEE	0.56
C6H6	< 1.00
DIMP	< 2.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA016G

EPA LOCID:198GW016010

SAMPLE DATE:02/26/87

COMPOUND	CONCENTRATION
11DCE	1.40
11DCLE	2.00
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	2.80
TRCLE	12.00
TCLEE	3.50
C6H6	< 1.00
DIMP	< 2.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA005M

EPA LOCID:198MW005015

SAMPLE DATE:02/24/87

COMPOUND	CONCENTRATION
11DCE	0.66
11DCLE	< 0.50
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	1.50
TRCLE	5.50
TCLEE	1.70
C6H6	< 0.50
DIMP	< 2.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA012M

EPA LOCID:198MW012010

SAMPLE DATE:02/24/87

COMPOUND	CONCENTRATION
11DCE	2.80
11DCLE	1.00
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	1.10
TRCLE	6.40
TCLEE	2.10
C6H6	< 0.50
DIMP	< 2.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA013M

EPA LOCID:198MW013012

SAMPLE DATE:02/25/87

COMPOUND	CONCENTRATION
11DCE	0.61
11DCLE	3.00
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	2.50
TRCLE	4.80
TCLEE	2.30
C6H6	< 0.50
DIMP	< 2.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA014M

EPA LOCID:198MW014013

SAMPLE DATE:02/24/87

COMPOUND	CONCENTRATION
11DCE	0.53
11DCLE	5.10
T12DCE	< 0.50
CHCL3	0.93
111TCE	8.30
TRCLE	12.00
TCLEE	5.70
C6H6	< 0.50
DIMP	< 2.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA015M

EPA LOCID:198MW015015

SAMPLE DATE:02/25/87

COMPOUND	CONCENTRATION
11DCE	1.80
11DCLE	< 0.50
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	5.70
TRCLE	8.70
TCLEE	< 0.50
C6H6	< 0.50
DIMP	< 2.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL: EPA517M

EPA LOCID: 198MW517006

SAMPLE DATE: 02/27/87

COMPOUND	CONCENTRATION
11DCE	< 0.50
11DCLE	0.51
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	0.67
TRCLE	< 0.50
TCLEE	< 0.50
C6H6	< 1.00
DIMP	< 2.00
DCPD	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA005M

EPA LOCID:198MW005016

SAMPLE DATE:02/24/87

COMPOUND	CONCENTRATION
11DCE	0.71
11DCLE	< 0.50
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	1.60
TRCLE	5.20
TCLEE	1.50
C6H6	< 0.50

EPA WATER CHEMISTRY SUMMARY

WELL:EPA012M

EPA LOCID:198MW012011

SAMPLE DATE:02/24/87

COMPOUND	CONCENTRATION
11DCE	2.80
11DCLE	0.89
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	0.58
TRCLE	4.80
TCLEE	1.40
C6H6	< 0.50

EPA WATER CHEMISTRY SUMMARY

WELL:EPA013M

EPA LOCID:198MW013013

SAMPLE DATE:02/25/87

COMPOUND	CONCENTRATION
11DCE	0.63
11DCLE	2.90
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	2.40
TRCLE	4.30
TCLEE	2.00
C6H6	< 0.50

EPA WATER CHEMISTRY SUMMARY

WELL:EPA014M

EPA LOCID:198MW014014

SAMPLE DATE:02/24/87

COMPOUND	CONCENTRATION
11DCE	1.80
11DCLE	5.10
T12DCE	< 0.50
CHCL3	0.75
111TCE	8.00
TRCLE	12.00
TCLEE	5.70
C6H6	< 0.50

EPA WATER CHEMISTRY SUMMARY

WELL:EPA015M

EPA LOCID:198MW015016

SAMPLE DATE:02/25/87

COMPOUND	CONCENTRATION
11DCE	1.80
11DCLE	< 0.50
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	5.50
TRCLE	8.80
TCLEE	< 0.50
C6H6	< 0.50

EPA WATER CHEMISTRY SUMMARY

WELL:EPA015M

EPA LOCID:198MW015017

SAMPLE DATE:02/25/87

COMPOUND	CONCENTRATION
11DCE	1.80
11DCLE	< 0.50
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	5.70
TRCLE	8.60
TCLEE	< 0.50
C6H6	< 0.50

EPA WATER CHEMISTRY SUMMARY

WELL: EPA517M

EPA LOCID: 198MW517005

SAMPLE DATE: 02/27/87

COMPOUND	CONCENTRATION
11DCE	< 0.50
11DCLE	0.52
T12DCE	< 0.50
CHCL3	< 0.50
111TCE	0.88
TRCLE	< 0.50
TCLEE	< 0.50
C6H6	< 1.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA012M

EPA LOCID:198MW012010

SAMPLE DATE:02/24/87

COMPOUND	CONCENTRATION
CL6CP	<20.00
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00
DBCP	< 0.10

EPA WATER CHEMISTRY SUMMARY

WELL:EPA014M

EPA LOCID:198MW014013

SAMPLE DATE:02/24/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	7.00
T12DCE	8.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	12.00
CCL4	< 5.00
TRCLE	16.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	10.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<20.00
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00
DBCP	< 0.10

EPA WATER CHEMISTRY SUMMARY

WELL:EPA005M

EPA LOCID:198MW005015

SAMPLE DATE:02/24/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	9.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<20.00
DBCP	< 0.10
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA015M

EPA LOCID:198MW015015

SAMPLE DATE:02/25/87

COMPOUND	CONCENTRATION
CH2CL2	10.000
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	12.00
CCL4	< 5.00
TRCLE	16.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 20.00
DBCP	< 0.10
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA015M

EPA LOCID:198MW015017

SAMPLE DATE:02/25/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	7.00
CCL4	< 5.00
TRCLE	11.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<20.00
DBCP	< 0.10

EPA WATER CHEMISTRY SUMMARY

WELL:EPA013M

EPA LOCID:198MW013012

SAMPLE DATE:02/25/87

COMPOUND	CONCENTRATION
CH2CL2	6.00
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	8.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<20.00
DBCP	< 0.10
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA008G

EPA LOCID:198GW008011

SAMPLE DATE:02/25/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	< 5.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<20.00
DBCP	< 0.10
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA009G

EPA LOCID:198GW009013

SAMPLE DATE:02/26/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	24.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<20.00
DBCP	< 0.10
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA010G

EPA LOCID:198GW010011

SAMPLE DATE:02/26/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	< 5.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<20.00
DECP	< 0.10
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA011G

EPA LOCID:198GW011009

SAMPLE DATE:02/26/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	< 5.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<20.00
DBCP	< 0.10
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA012G

EPA LOCID:198GW012012

SAMPLE DATE:02/27/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	7.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	45.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<20.00
DBCP	< 0.10
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00

EPA WATER CHEMISTRY SUMMARY

WELL EPA016G

EPA LOCID:198GW016010

SAMPLE DATE:02/26/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	10.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<20.00
DBCP	< 0.10
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA014G

EPA LOCID:198GW014009

SAMPLE DATE:02/27/87

COMPOUND	CONCENTRATION
CH2CL2	< 7.00
11DCE	< 6.00
11DCLE	< 6.00
T12DCE	< 6.00
CHCL3	< 6.00
12DCLE	< 6.00
111TCE	< 6.00
CCL4	< 6.00
TRCLE	9.00
112TCE	< 6.00
C6H6	< 6.00
TCLEE	110.00
MEC6H4	< 6.00
CLC6H5	< 6.00
ETC6H5	< 6.00
XYLENE	< 6.00
CL6CP	<20.00
DBCP	< 0.10
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
FNDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA015G

EPA LOCID:198GW015011

SAMPLE DATE:02/27/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	19.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	<20.00
DBCP	< 0.10
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00

EPA WATER CHEMISTRY SUMMARY

WELL: EPA517M

EPA LOCID: 198MW517005

SAMPLE DATE: 02/27/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	< 5.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	< 5.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00
CL6CP	< 20.00
DBCP	< 0.10
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA063

EPA LOCID:198DW063002

SAMPLE DATE:03/02/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	8.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	< 5.00
CCL4	< 5.00
TRCLE	19.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	< 5.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA010

EPA LOCID:198DW010002

SAMPLE DATE:03/03/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	12.00
T12DCE	85.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	130.00
CCL4	< 5.00
TRCLE	91.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	10.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA077

EPA LOCID:198DW077001

SAMPLE DATE:03/03/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	< 6.00
11DCLE	< 5.00
T12DCE	20.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	10.00
CCL4	< 5.00
TRCLE	66.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	6.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA073

EPA LOCID:198DW073002

SAMPLE DATE:03/03/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	8.00
11DCLE	11.00
T12DCE	27.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	23.00
CCL4	< 5.00
TRCLE	16.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	18.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA019

EPA LOCID:198DW019002

SAMPLE DATE:03/03/87

COMPOUND	CONCENTRATION
CH2CL2	< 5.00
11DCE	8.00
11DCLE	12.00
T12DCE	28.00
CHCL3	< 5.00
12DCLE	< 5.00
111TCE	19.00
CCL4	< 5.00
TRCLE	14.00
112TCE	< 5.00
C6H6	< 5.00
TCLEE	16.00
MEC6H4	< 5.00
CLC6H5	< 5.00
ETC6H5	< 5.00
XYLENE	< 5.00

EPA WATER CHEMISTRY SUMMARY

WELL:EPA015M

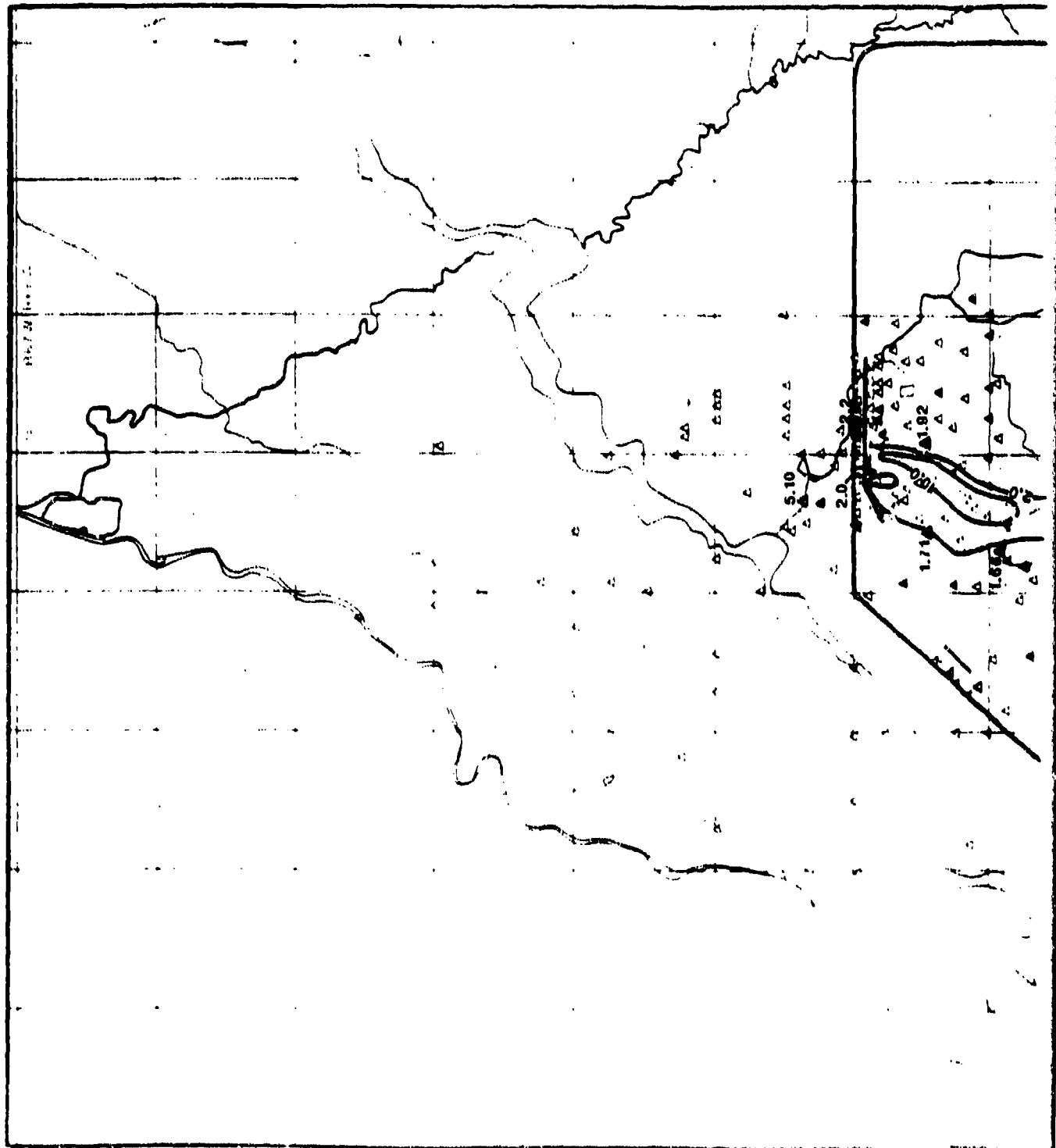
EPA LOCID:198MW015017

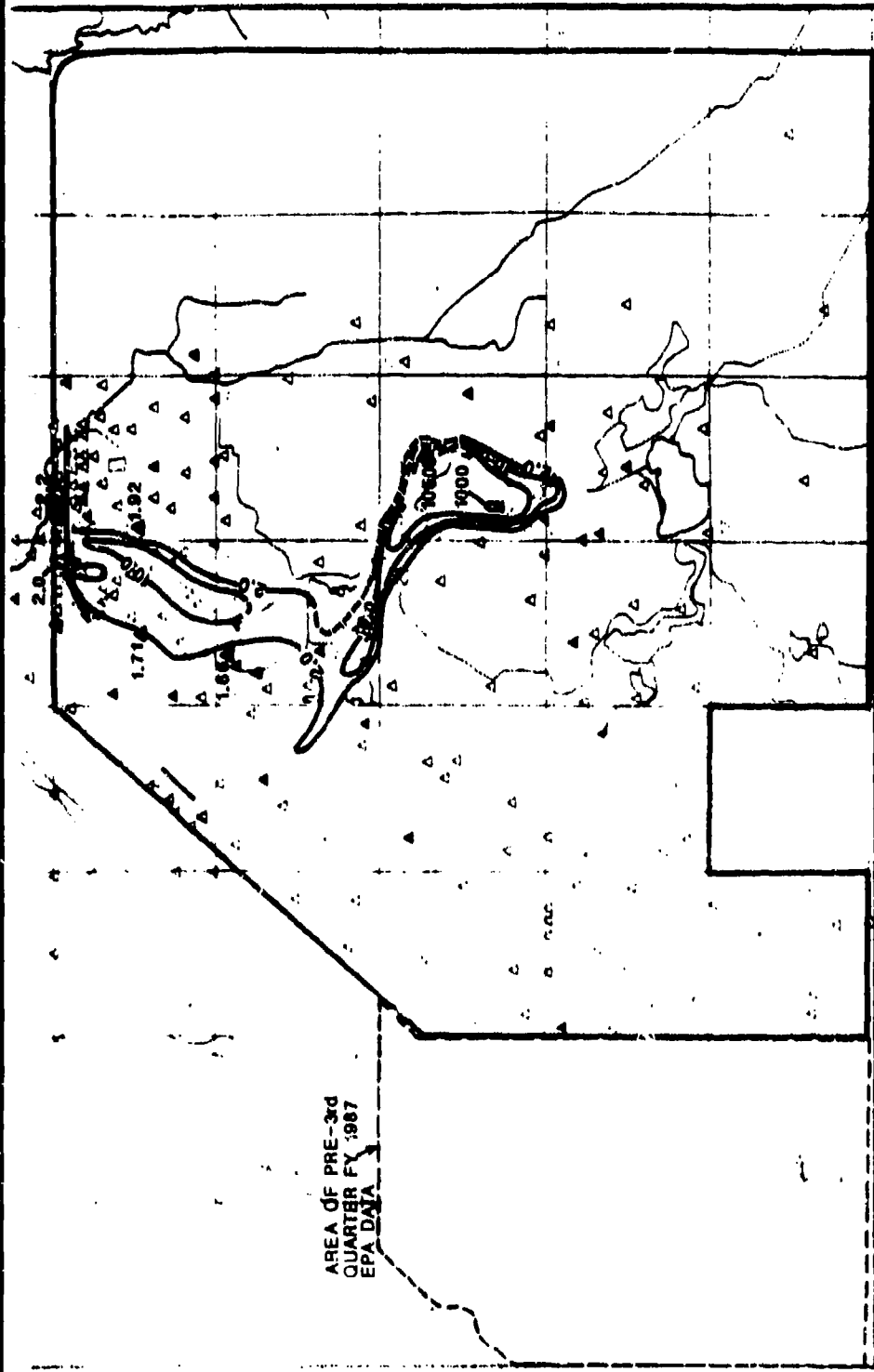
SAMPLE DATE:02/25/87

COMPOUND	CONCENTRATION
ALDRN	< 0.05
DLDRN	< 0.10
PPDDE	< 0.10
ENDRN	< 0.10
PPDDT	< 0.10
CLDAN	< 0.50
ISODR	< 0.00

**APPENDIX D.3: ALLUVIAL/UNCONFINED PLUME MAPS
(D-1 TO D-9)**

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EXPLANATION

- △ Alluvial Well
- ▲ Unconfined Denver Fm. Well
- Isocentration Line, Dashed Where Inferred
- △ 2.65 Isolated Alluvial Detection or Detection Less Than Highest CRL, in ug/l
- Ct: 2.0 ug/l
10.0 ug/l
50 ug/l
1000 ug/l

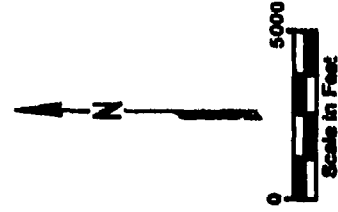


Figure D-1

OXATHIANE PLUMES UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

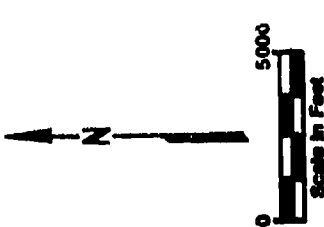
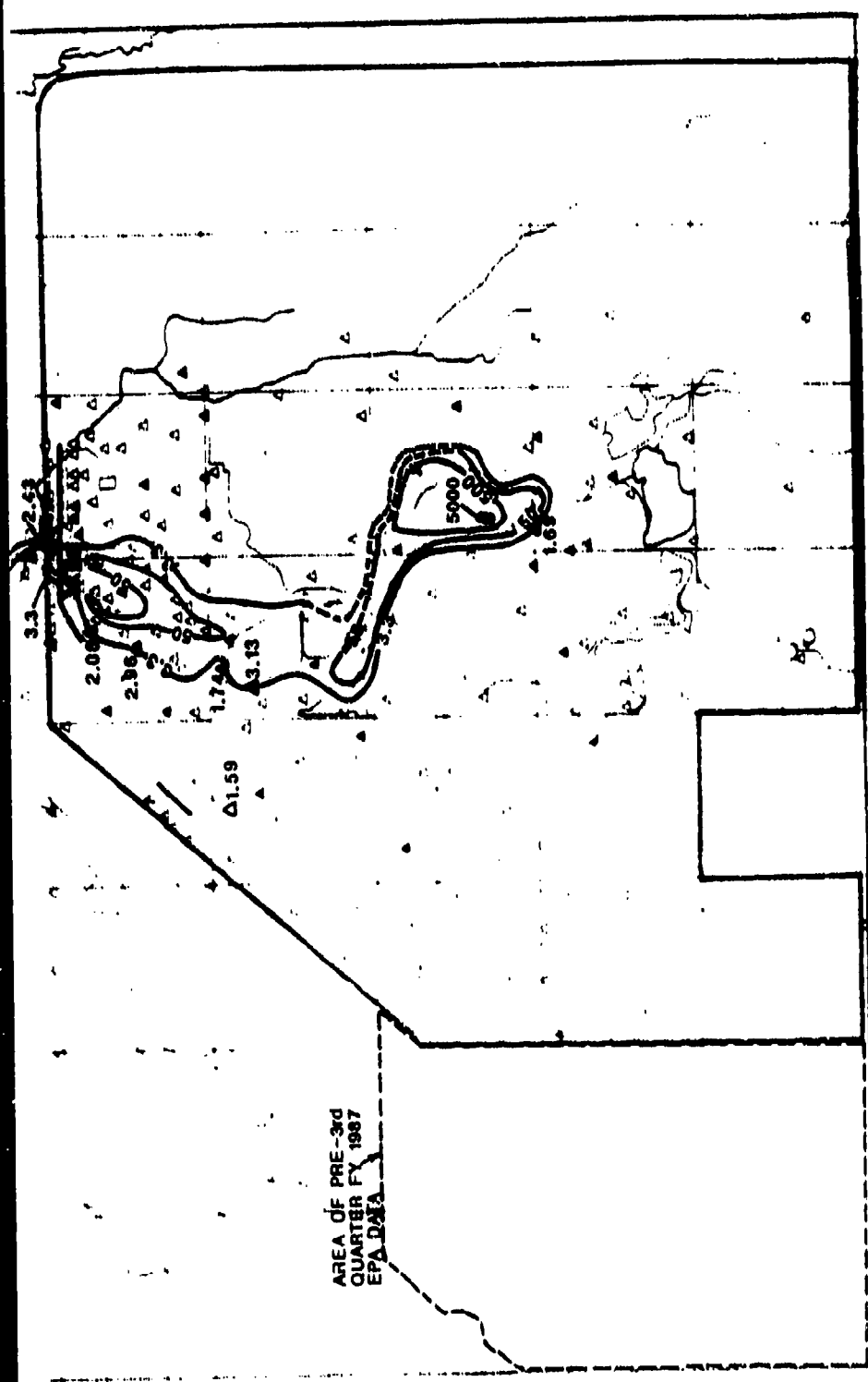
SOURCE: HLA, 1988

Aberdeen Proving Ground, Maryland

C

D

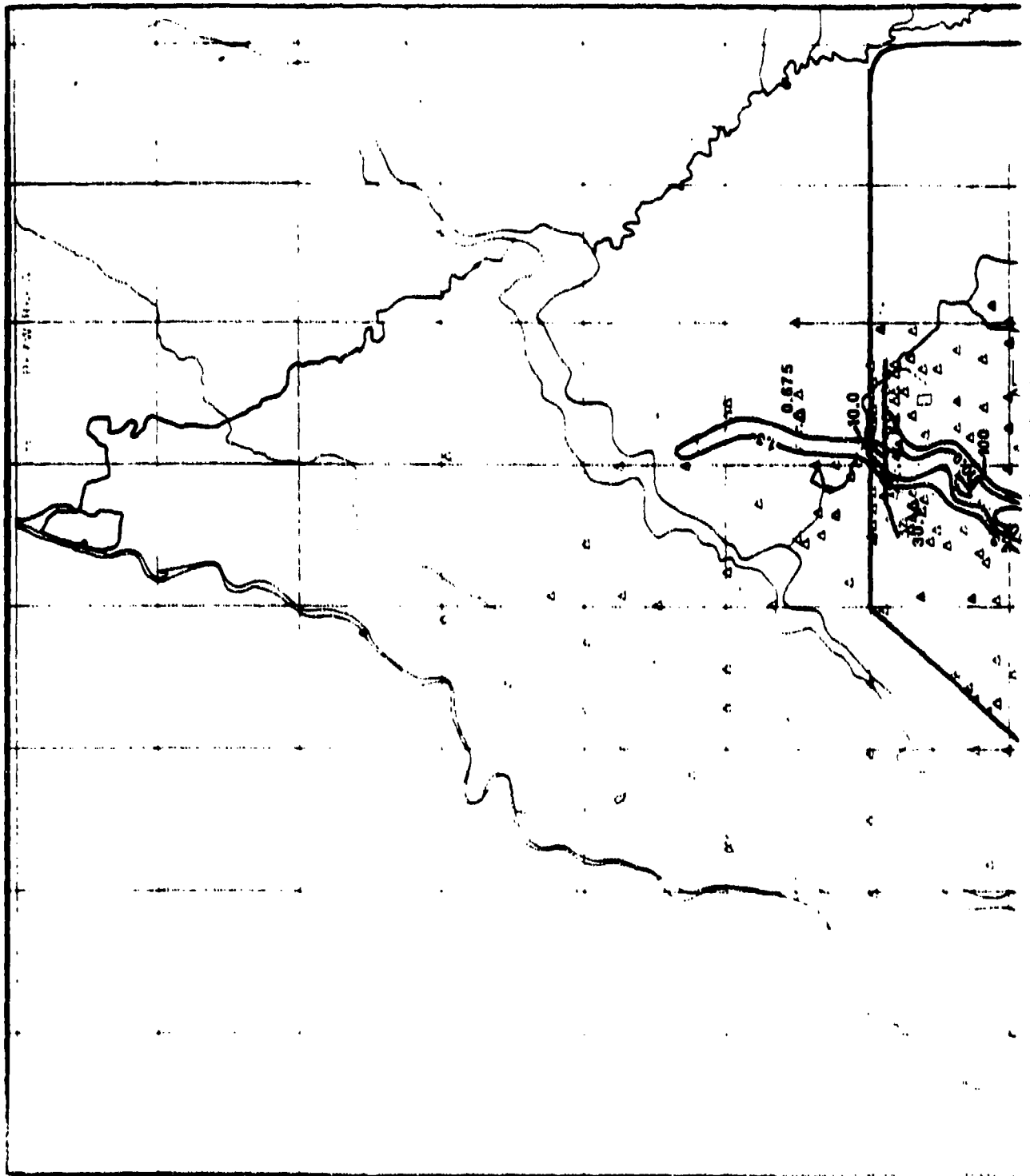
D

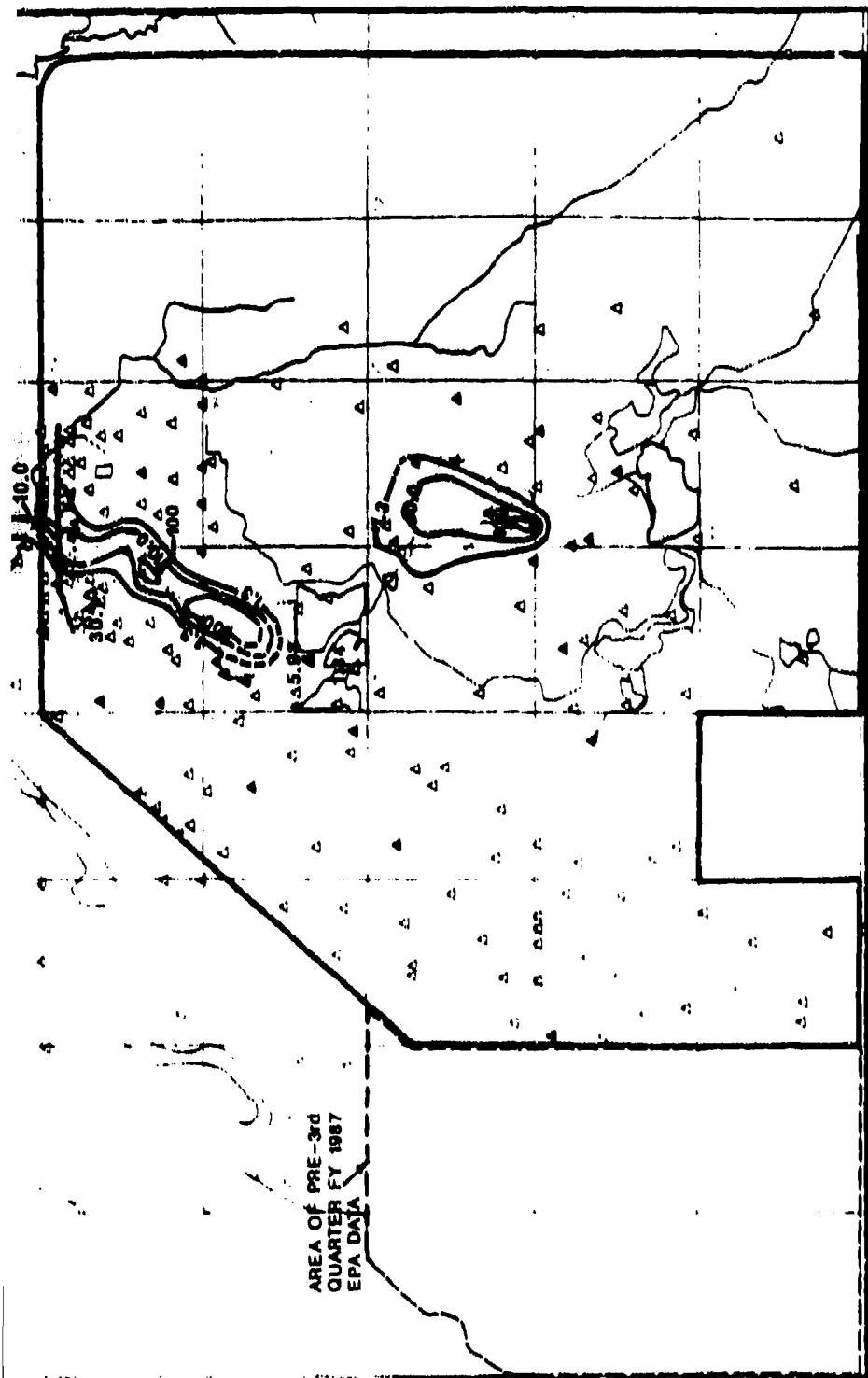


- EXPLANATION**
- △ Alluvial Well
 - ▲ Unconfined Denver Fm. Well
 - Isoconcentration Line, Drawn Where Inferred
 - △ 2.65 Isolated Alluvial Detection or Detection Less Than Highest CRL, in ug/l
- Ct: 3.3 ug/l
 50 ug/l
 500 ug/l
 5000 ug/l

Prepared for:
**U.S. Army Program Manager's Office
 For Rocky Mountain Arsenal**
 Aberdeen Proving Ground, Maryland

Figure D-2
DITHIANE PLUMES UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987





EXPLANATION

△ Alluvial Well

△ Unconfined Downer Frac. Well

— Isoconcentration Line,
Dashed Where Inferred

△ 2.65
Isolated Alluvial Detection or
Detection Less Than Highest CRL,
in ug/l

Ct: 1.3 ug/l
10.0 ug/l
100 ug/l



Figure D-3

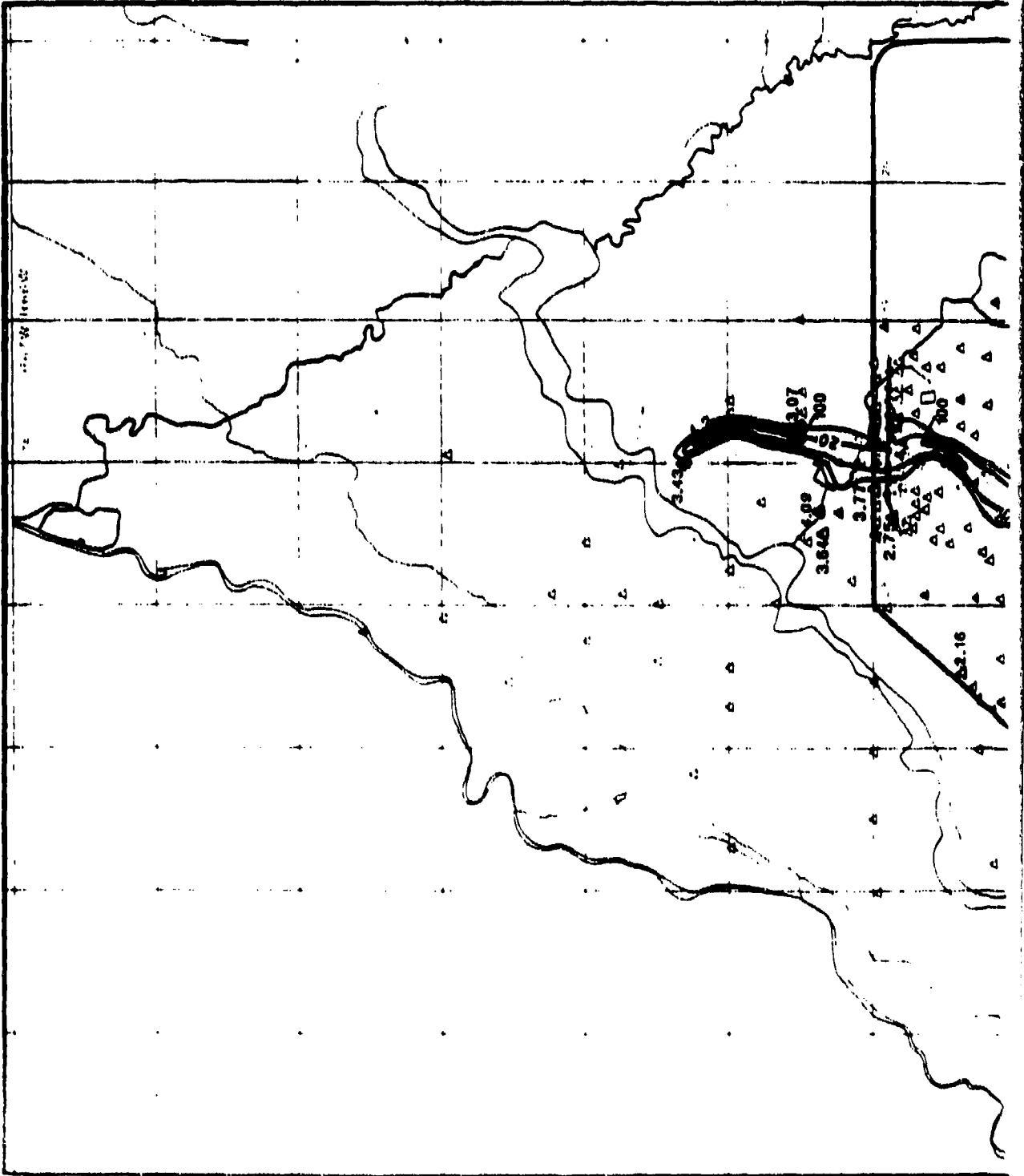
CPMS PLUMES UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987

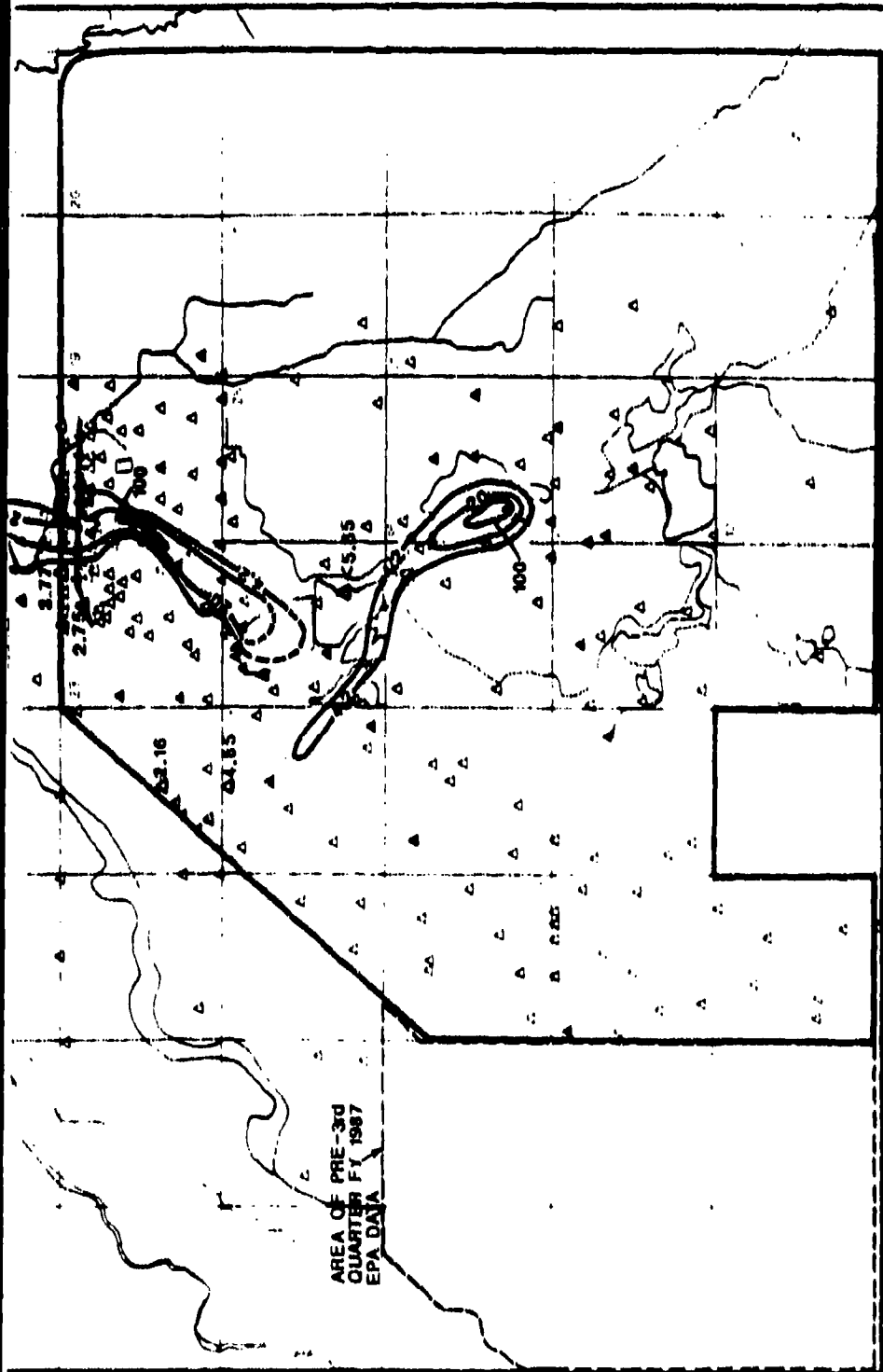
SOURCE: HLA, 1986

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

Aberdeen Proving Ground, Maryland

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EXPLANATION

Cl: 4.2 ug/l
20 ug/l
100 ug/l

△ Alluvial Well

▲ Unconfined Denver Fm. Well

— Isoconcentration Line,
Dashed Where Inferred

△ 2.65
Isolated Alluvial Detection or
Detection Less Than Highest CML,
in ug/l

Figure D-4

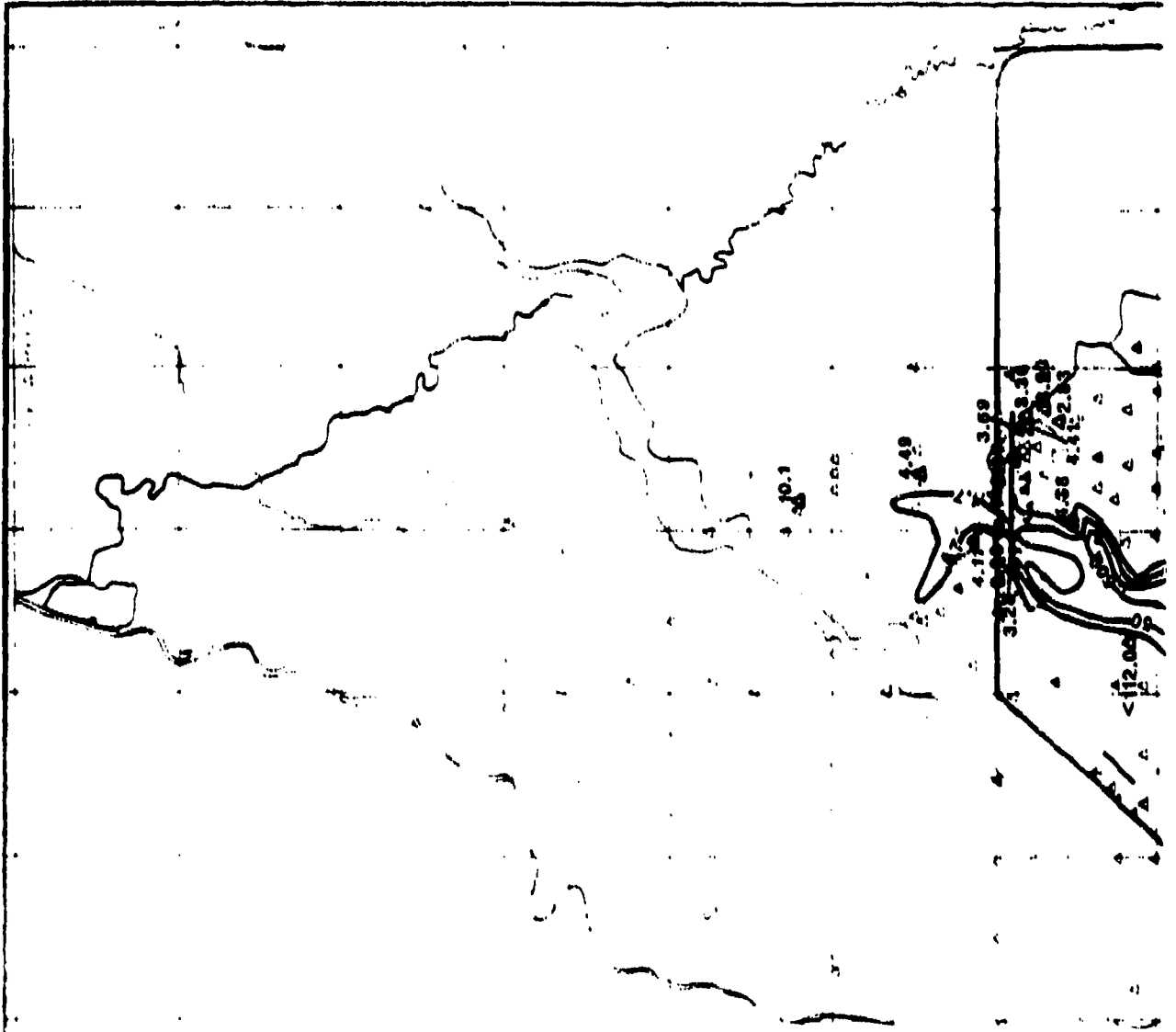
CPM SO PLUMES UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987

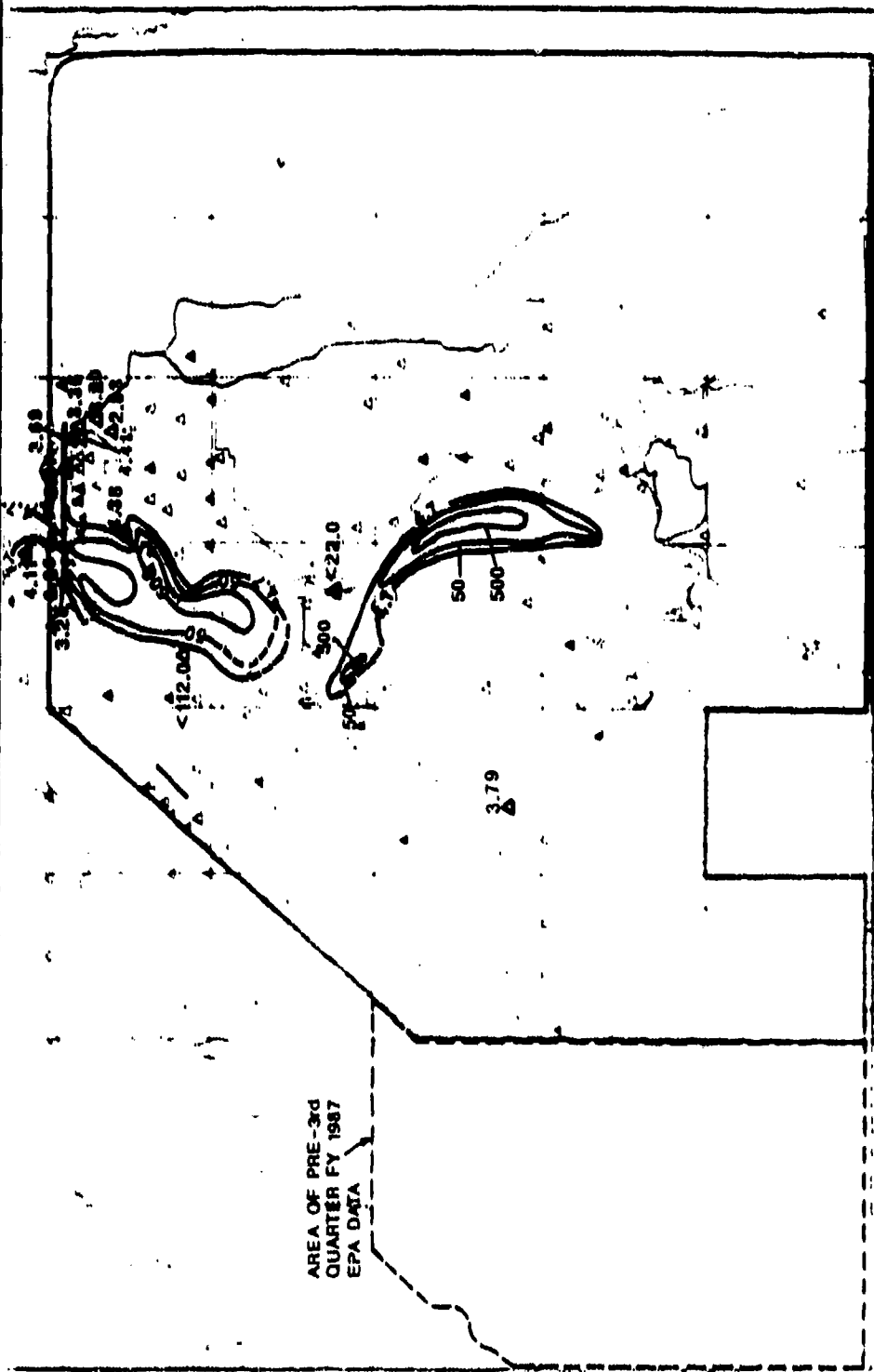
Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

SOURCE: HLA, 1988

Aberdeen Proving Ground, Maryland

0-00 T-41





EXPLANATION

Δ Alluvia Well

▲ Unconfined Denver Fm. Well

**isoconcentration Line,
Dashed Where Inferred**

Δ 2.65
Isolated Atrial Detection or
Detection Less Than Highest CRL,
In ug/l

Ct: 4.7 ug/l
50 ug/l
500 ug/l

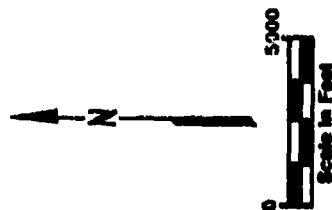


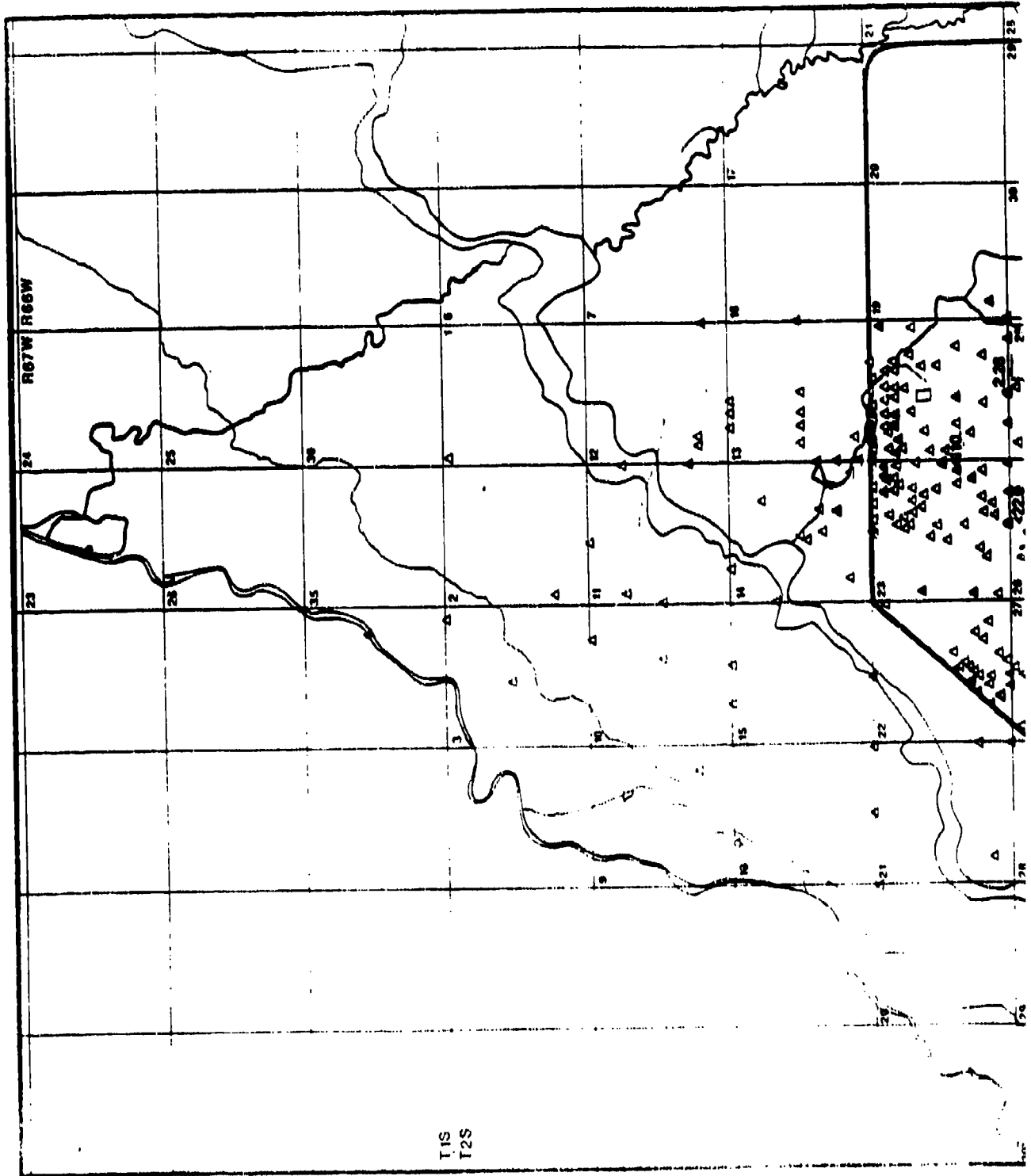
Figure D-5

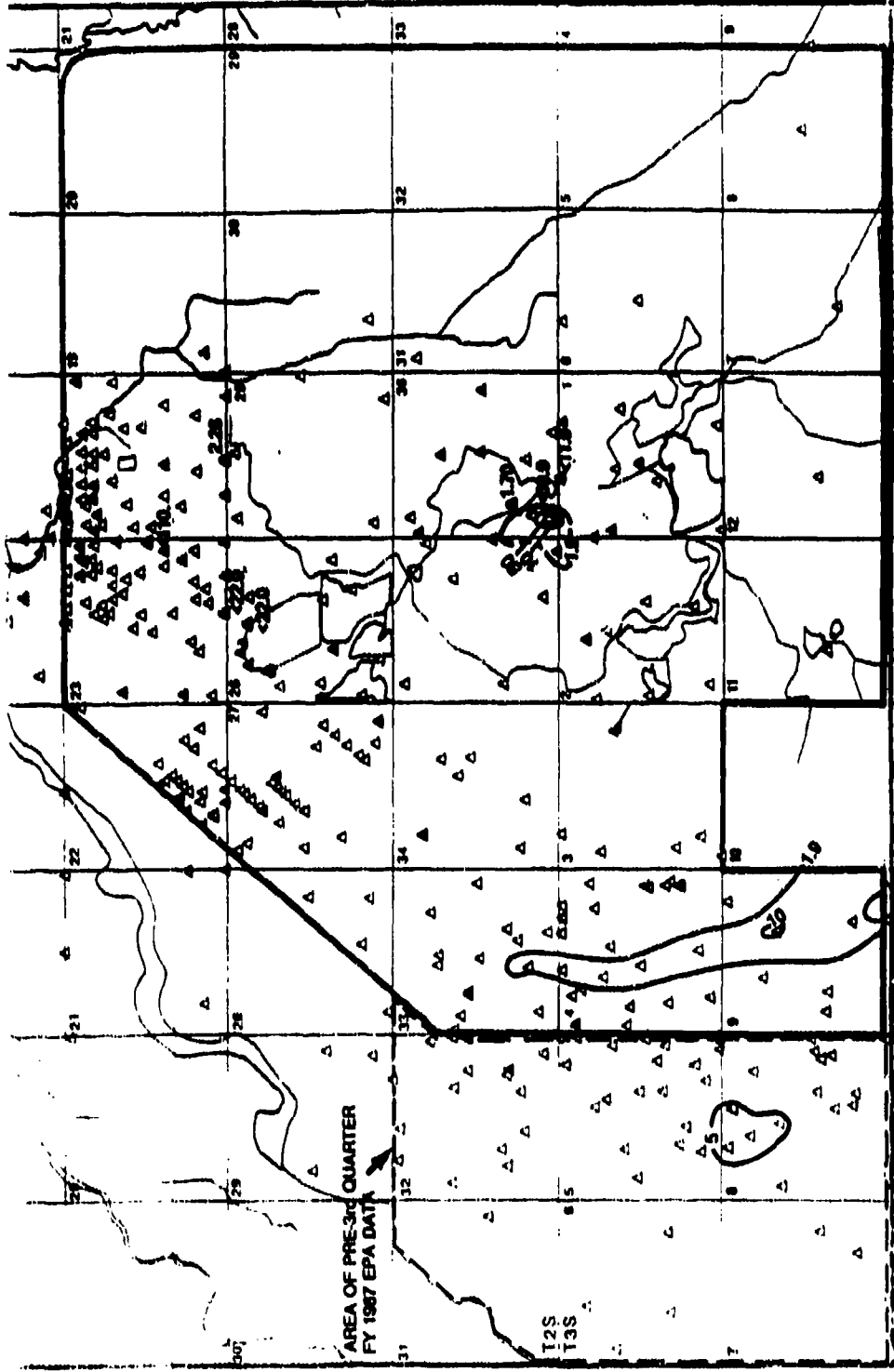
**CPMO, PLUMES UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987**

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal**

SOURCE: HLA, 1989

Aberdeen Proving Ground, Maryland





EXPLANATION

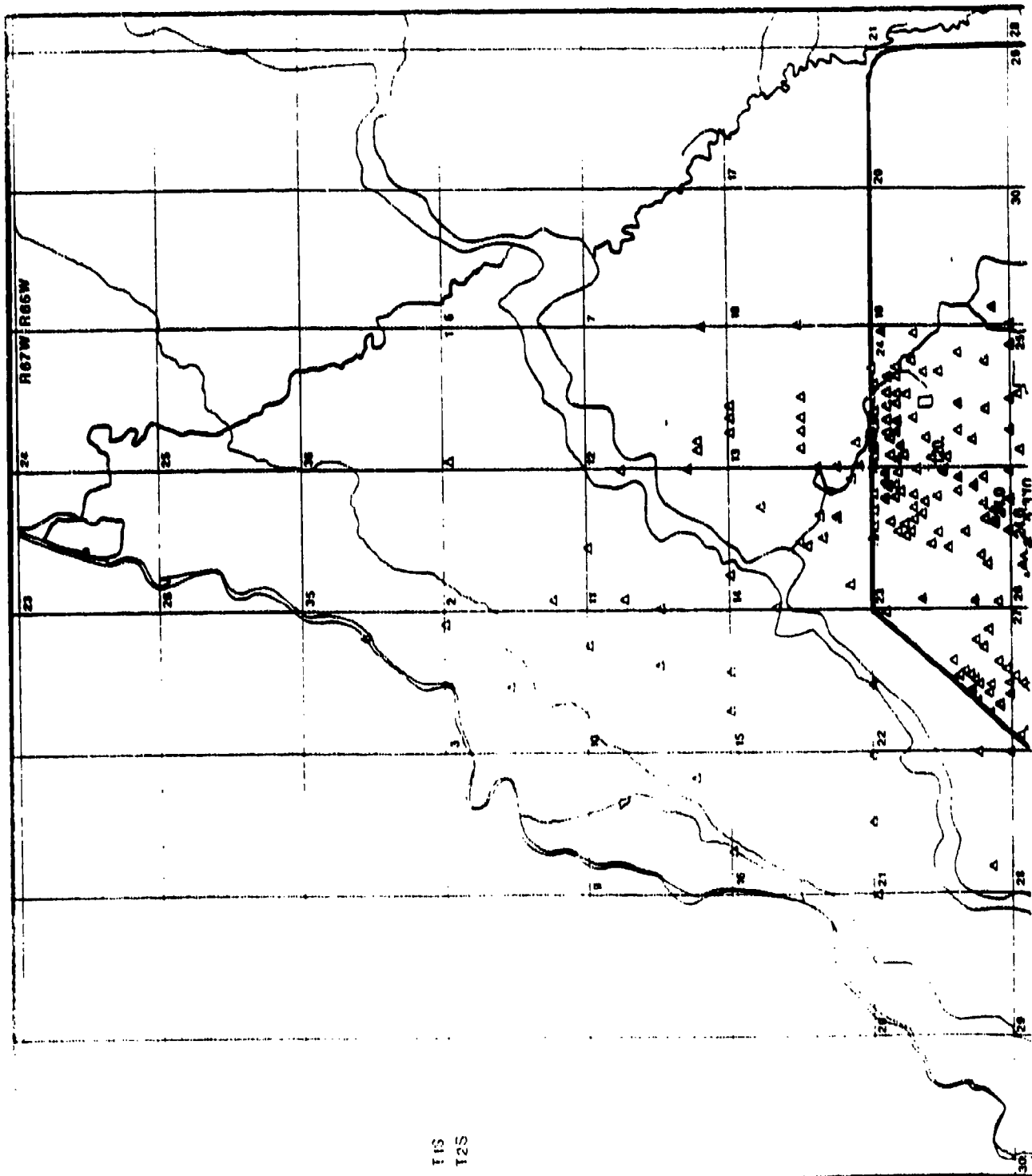
- △ Alluvial Well
- ▲ Unconfined Denver Fm. Well
- Isocentration Line, Dashed Where Inferred
- △ 2.65 Isolated Alluvial Detection or Concentration Less Than Highest CRL, in ug/l
- Ct: 1.9 ug/l
5 ug/l
10 ug/l
50 ug/l

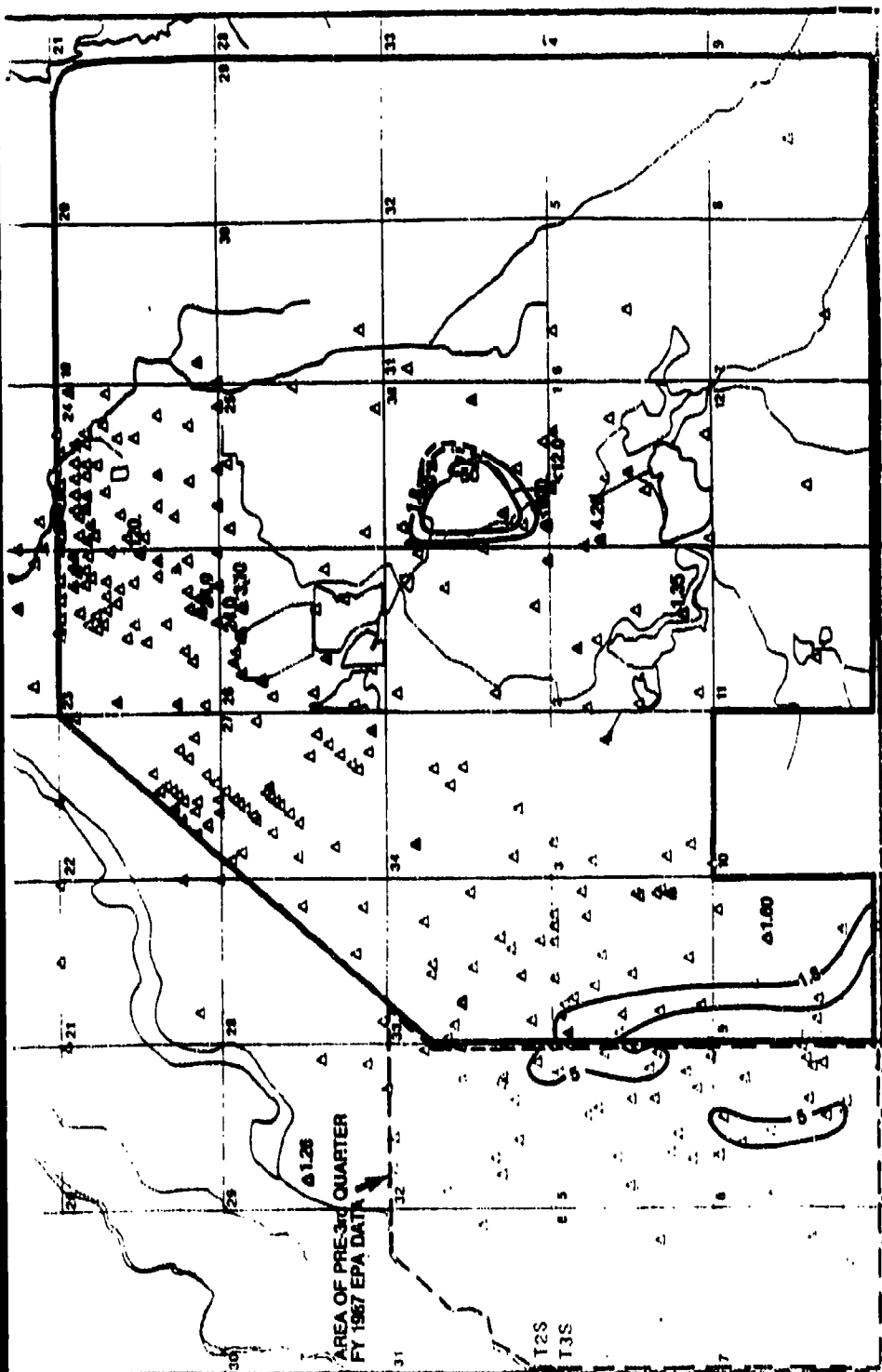
Figure D-6

11 DICHLOROETHENE PLUMES UNCONFINED GROUNDWATER FLOW SYSTEM 3RD QUARTER, FY 1987

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal**

Aberdeen Proving Ground, Maryland





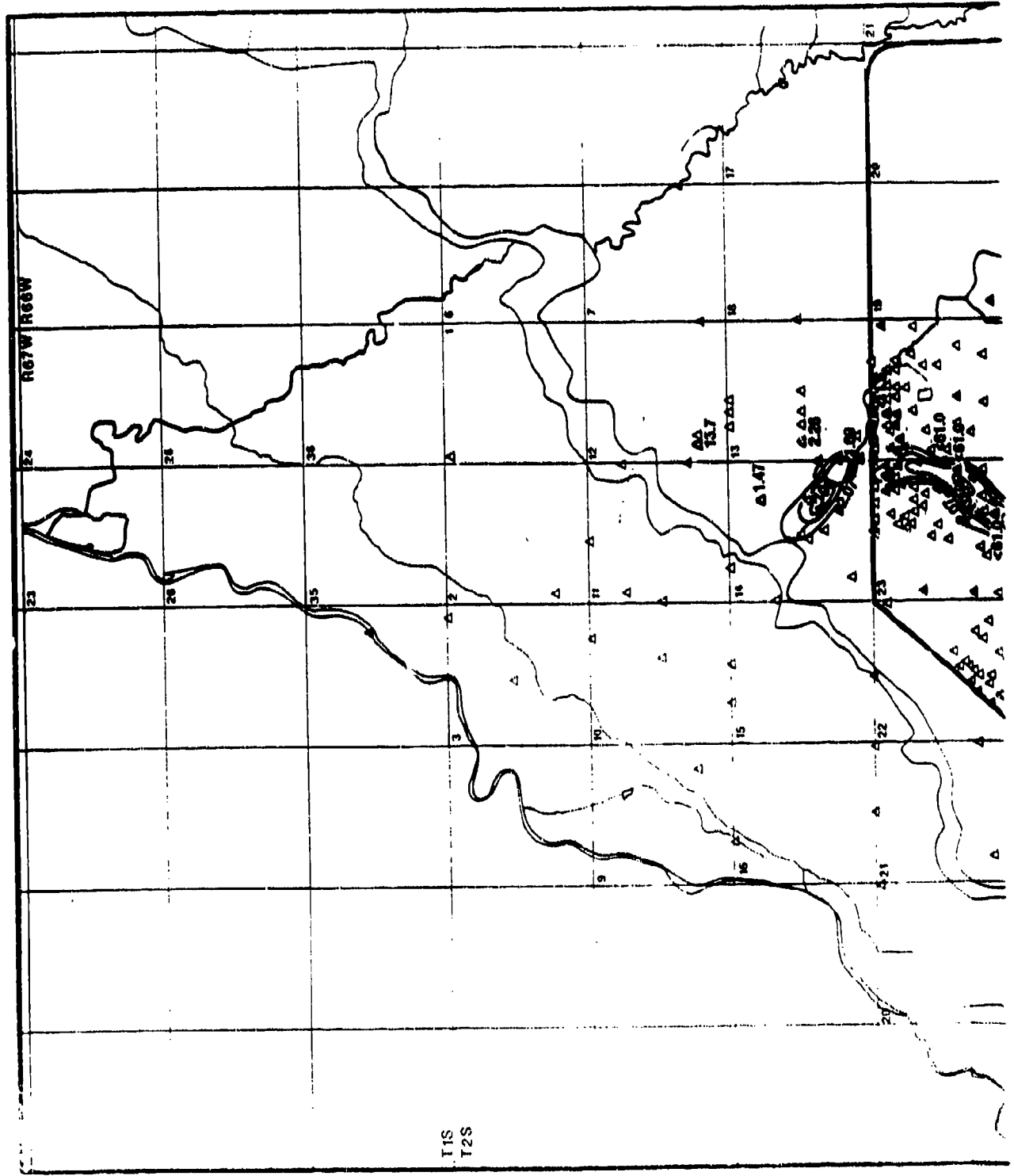
EXPLANATION

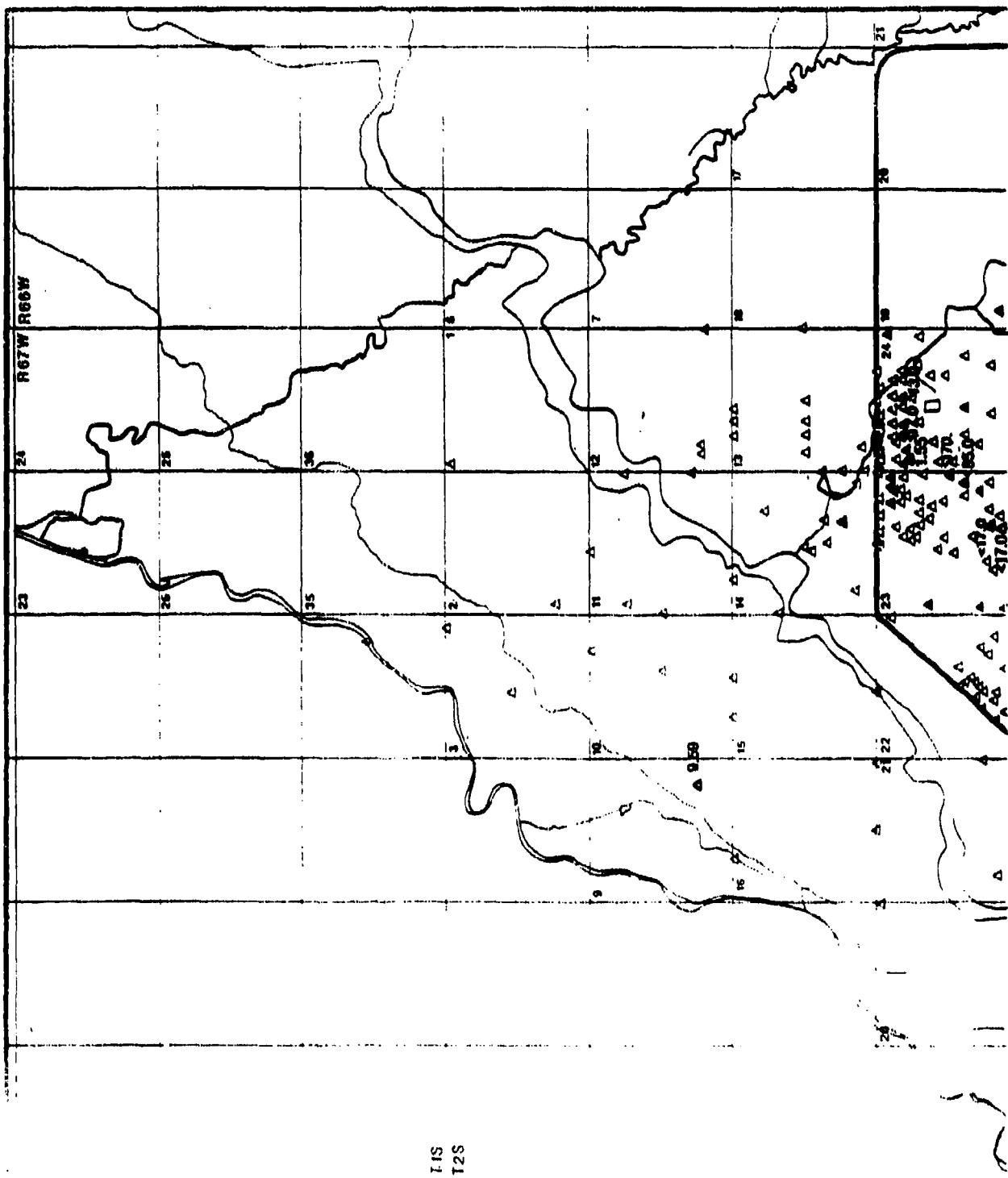
- △ Alluvial Well
- ▲ Unconfined Denver Fm. Well
- Isoconcentration Line, Dashed Where Inferred
- △ 2.65 Isolated Alluvial Detection or Concentration Less Than Highest CRL, in ug/l
- △ 1.8 ug/l
- △ 5 ug/l
- △ 10 ug/l
- △ 50 ug/l

Figure D-7

T1,2-DICHLOROETHENE PLUMES UNCONFINED GROUNDWATER FLOW SYSTEM 3RD QUARTER, FY 1987

Prepared for:
 U.S. Army Program Manager's Office
 For Rocky Mountain Arsenal
 Aberdeen Proving Ground, Maryland

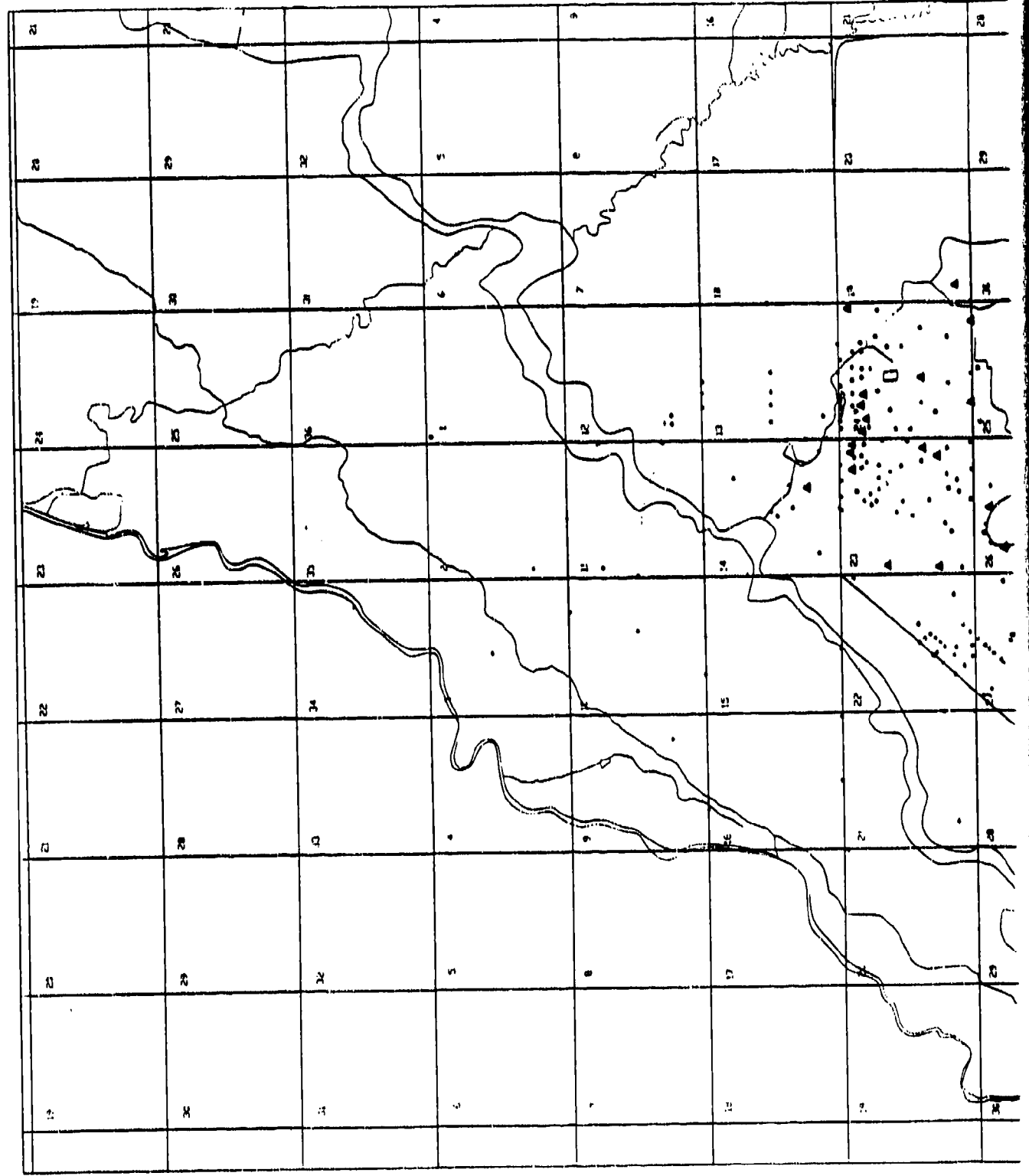


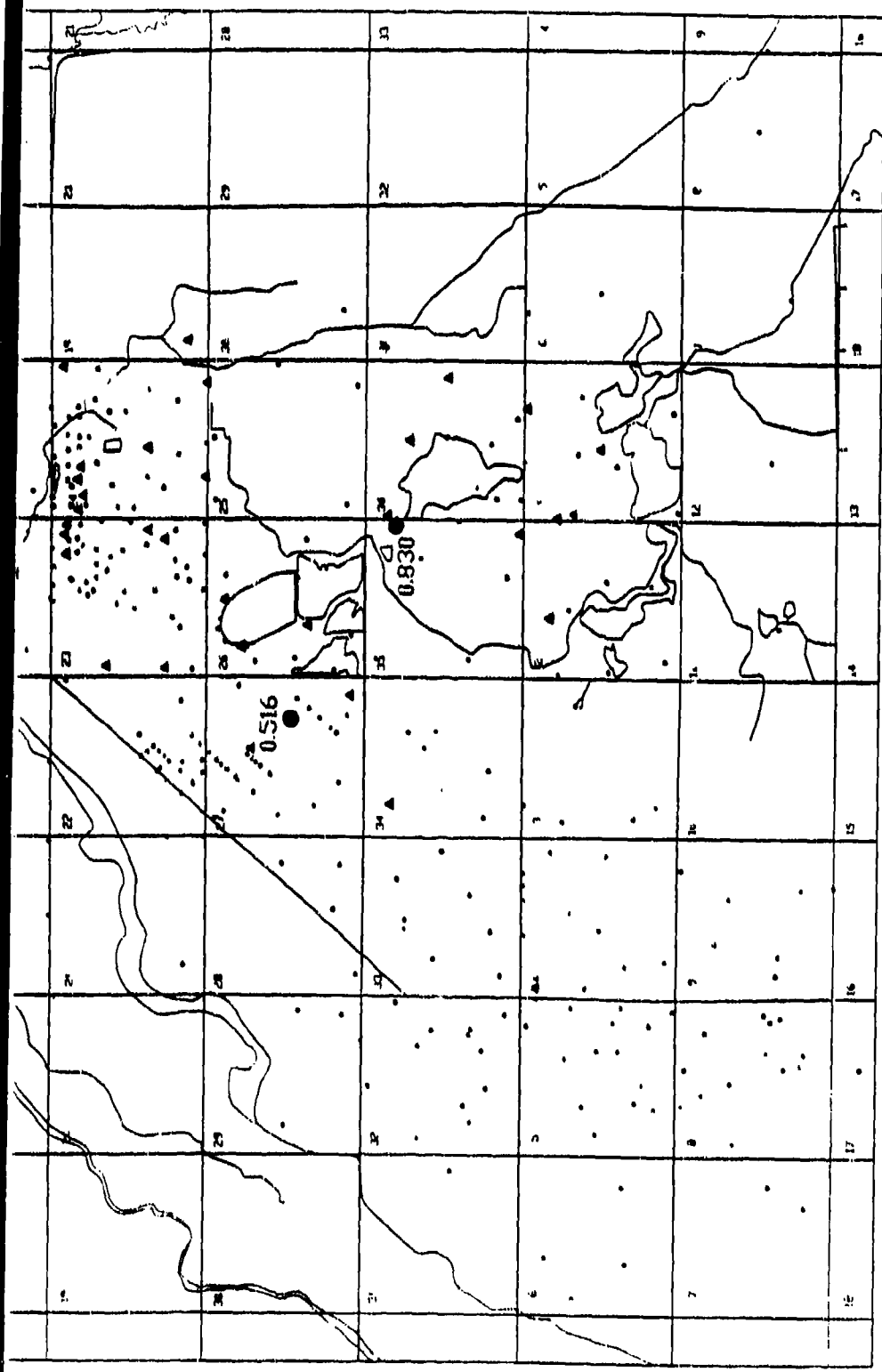


11S
12S

**APPENDIX D.4: ALLUVIAL/UNCONFINED POINT PLOTS
(D-10 TO D-26)**

8-44 T 44





EXPLANATION

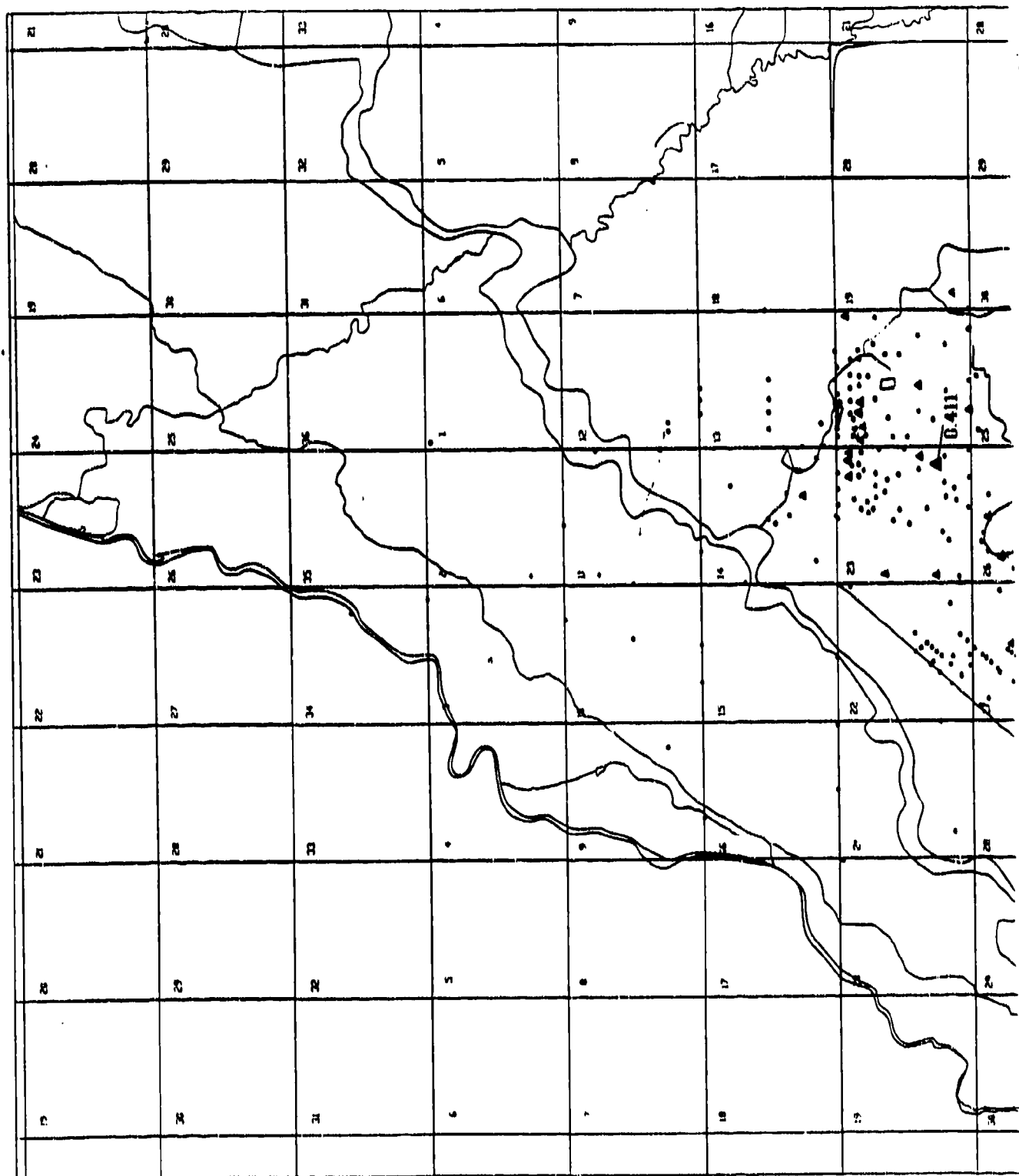
- Alluvial Well
- Alluvial Detection, Units in ug/l.
- ▲ Unconfined Denver Formation Well
- ▲ 16.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

Figure D-10

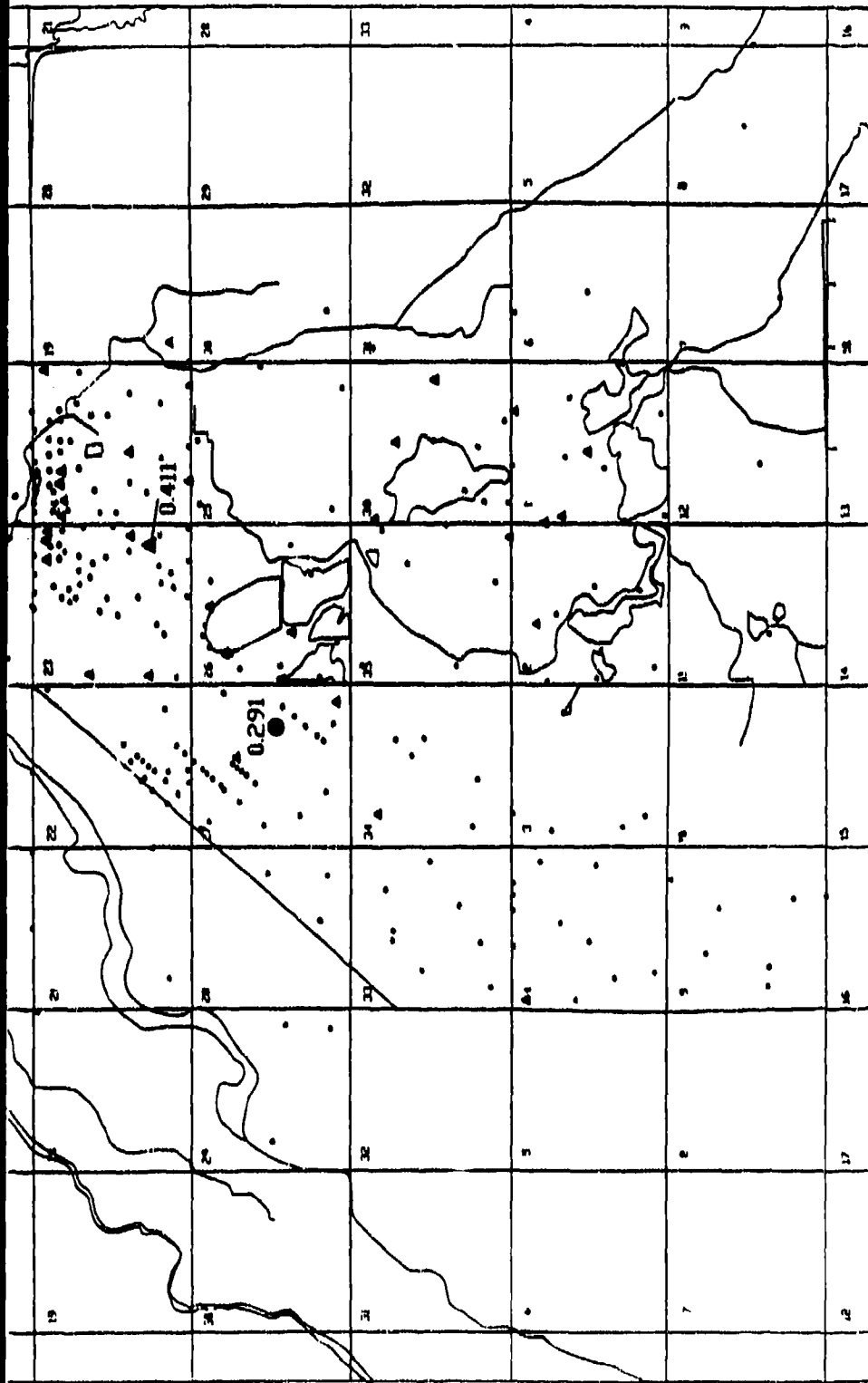
**ALDRIN DETECTIONS UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987**

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**

SOURCE: HUNTERESE, 1988



2



EXPLANATION

- Alluvial Well
- Alluvial Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/l

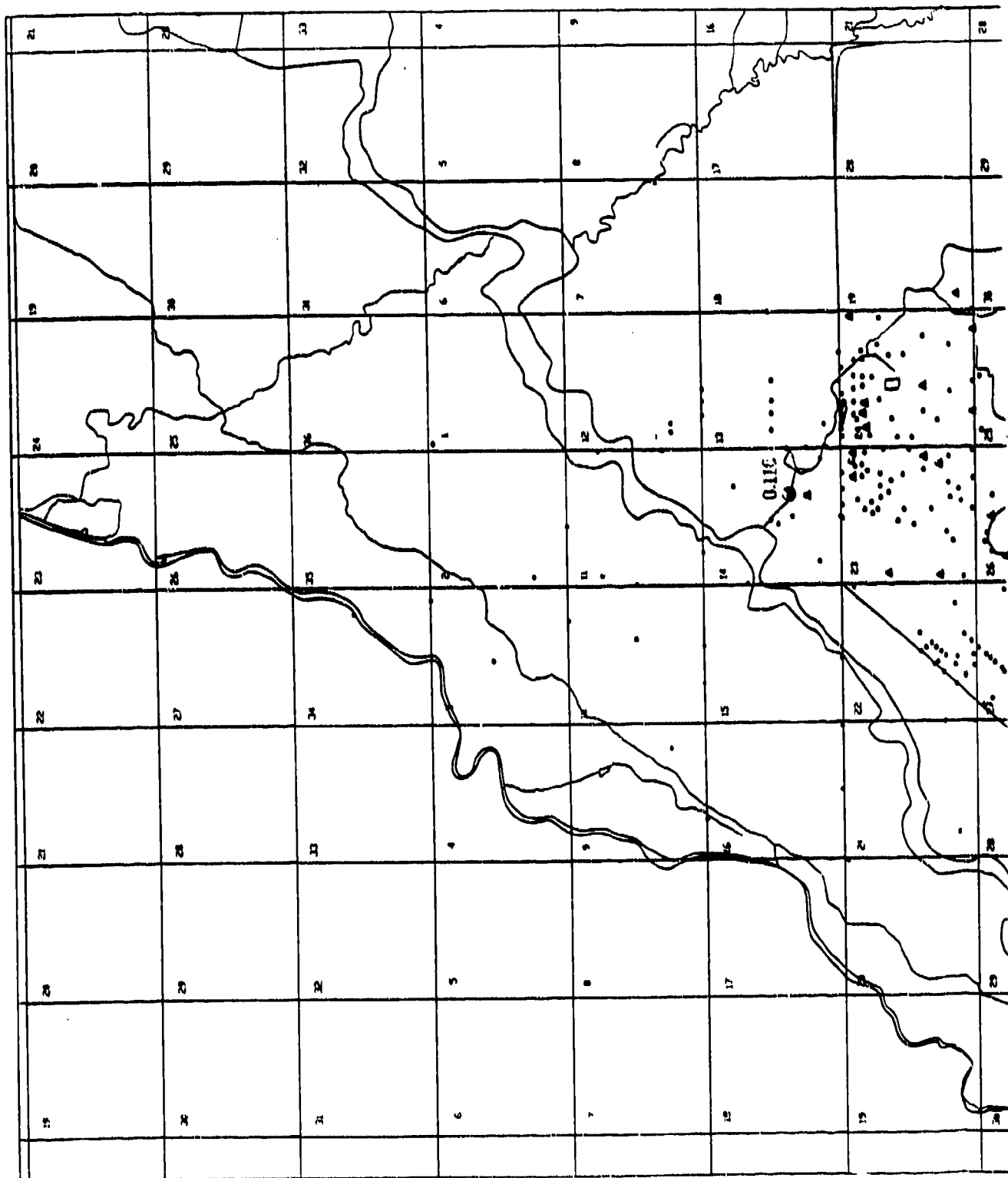
Figure D-11

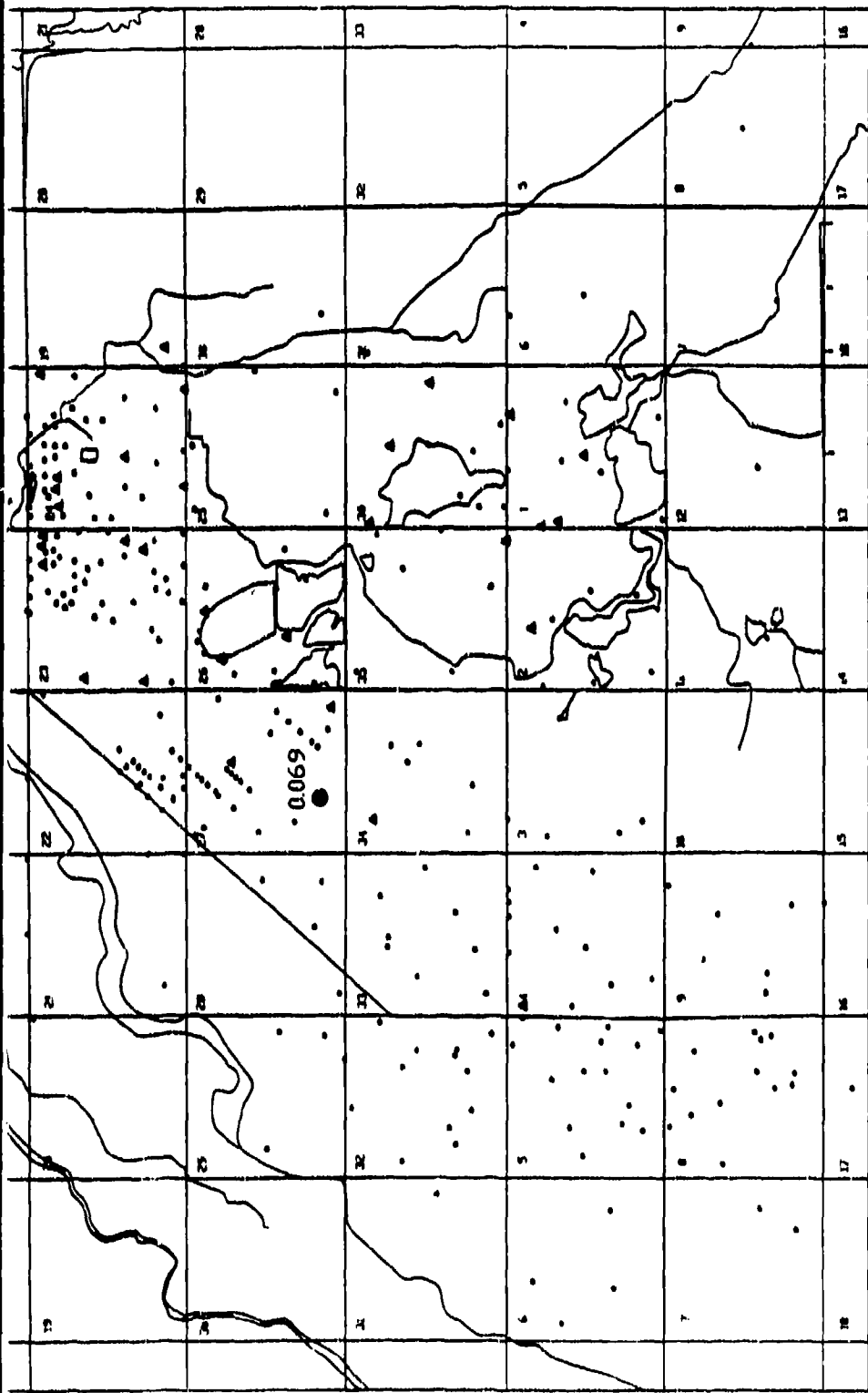
ISODRIN DETECTIONS UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

8-20, T 44





EXPLANATION

- Alluvial Well
- Alluvial Detection, Units in ug/L
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/L

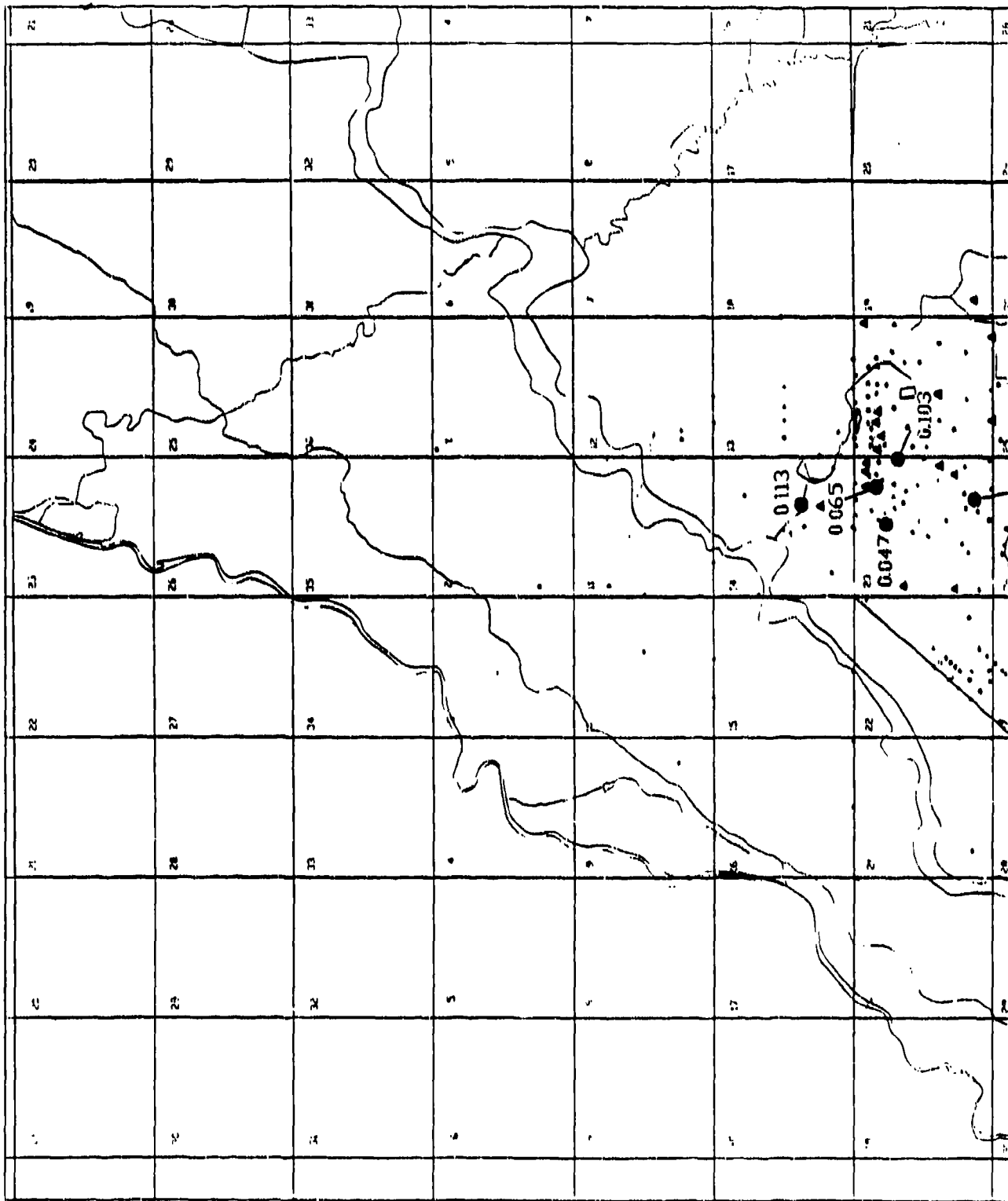
Figure D-12

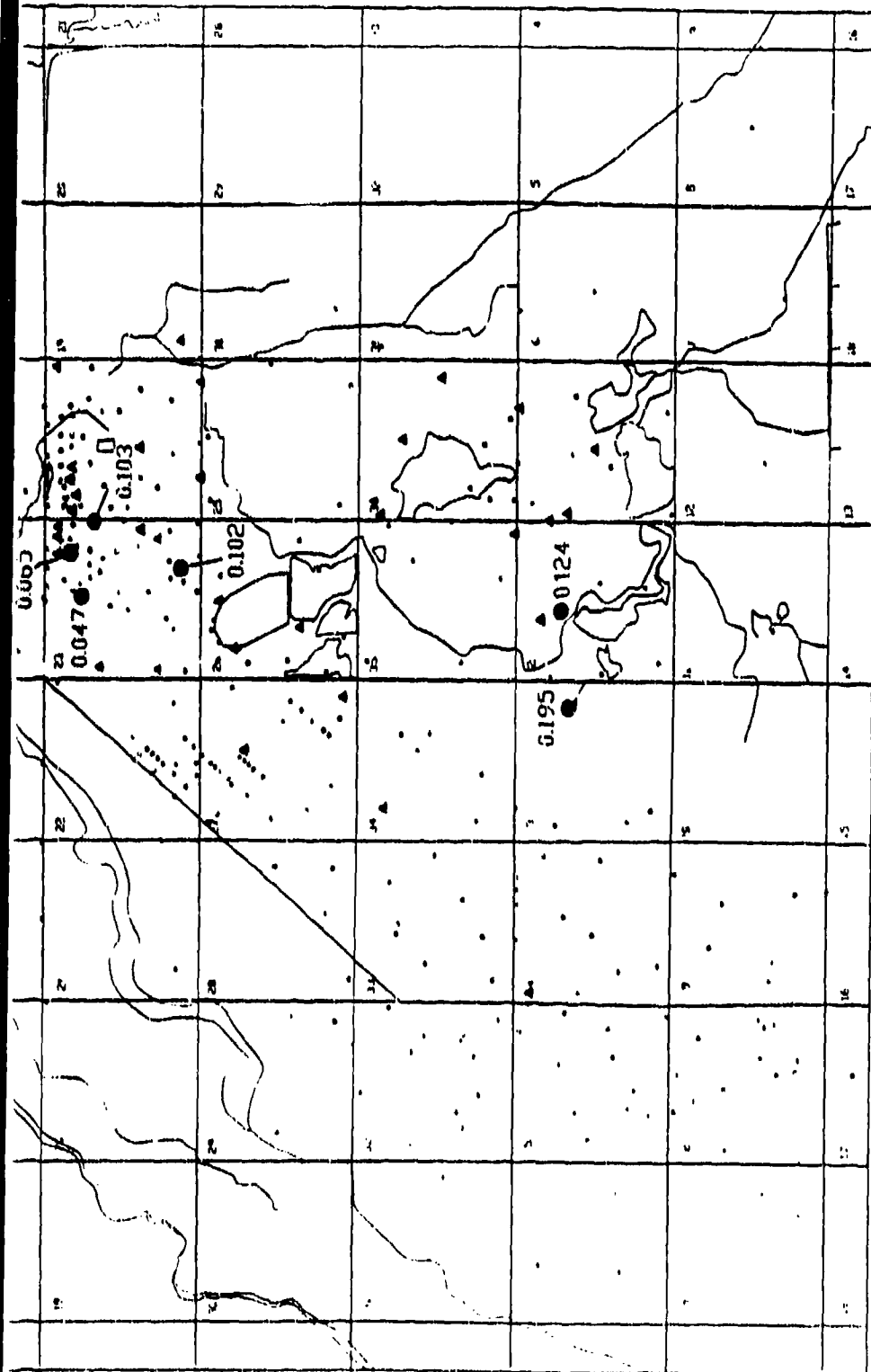
PP-DDT DETECTIONS UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

SOURCE: Hunter/ESE, 1988

Aberdeen Proving Ground, Maryland





EXPLANATION

- Alluvial Well
- Alluvial Detection, Units in ug/l.
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

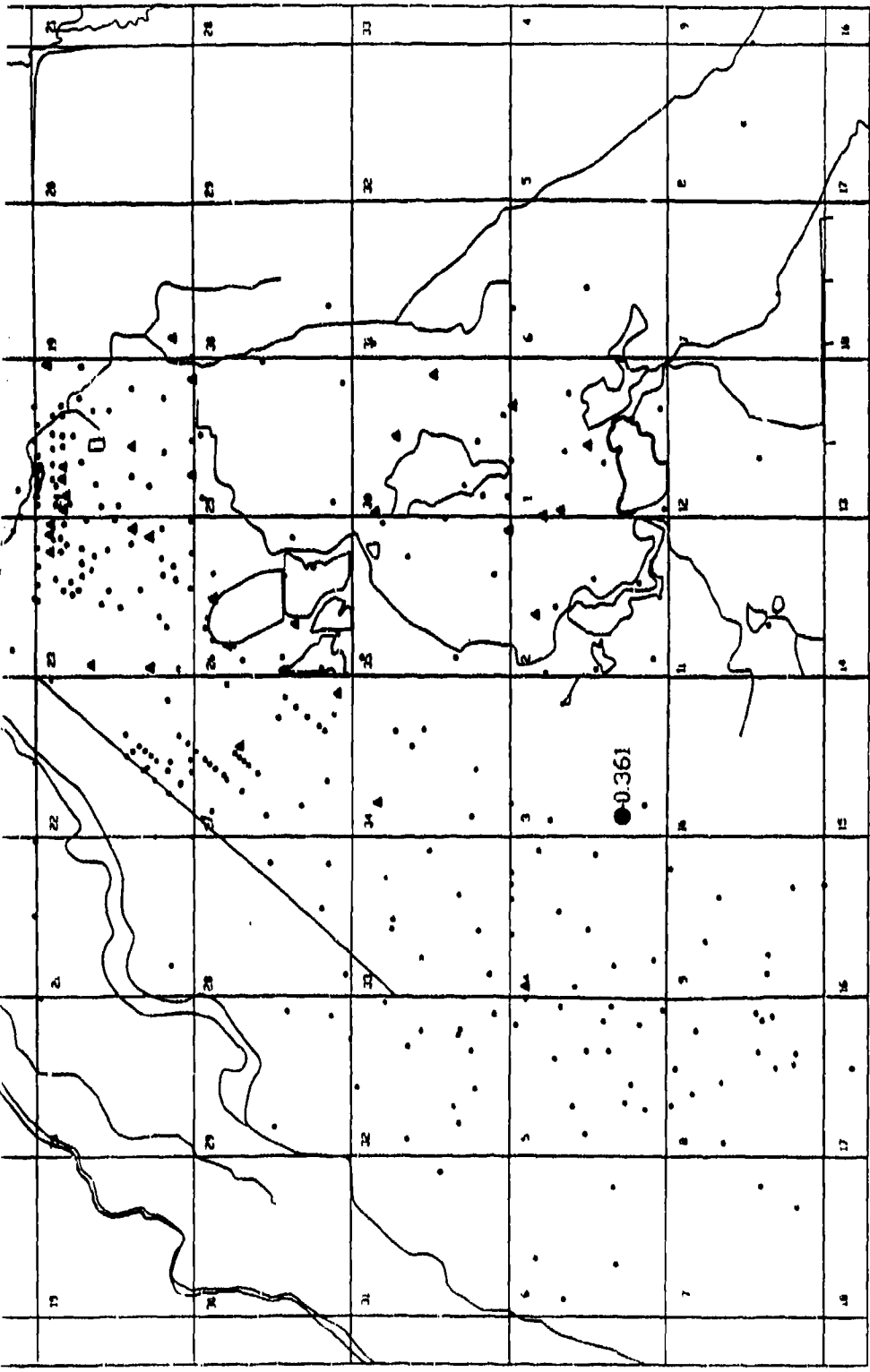
Figure D-13

PPDDE DETECTIONS UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

SOURCE: Hunter/ESI, 1988

Aberdeen Proving Ground, Maryland



EXPLANATION

- Alluvial Well
- Alluvial Detection, Units in ug/l.
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

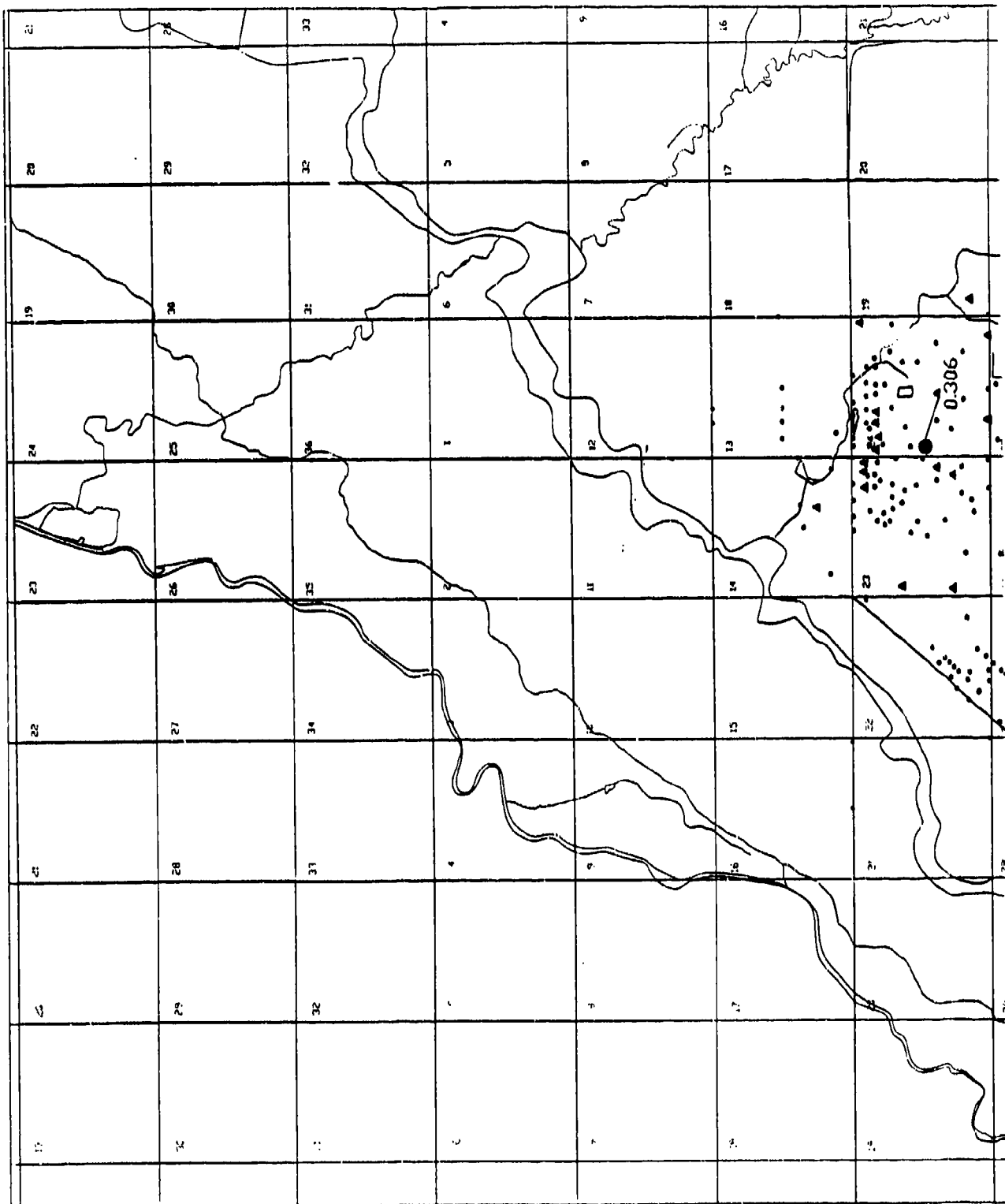
Figure D-14

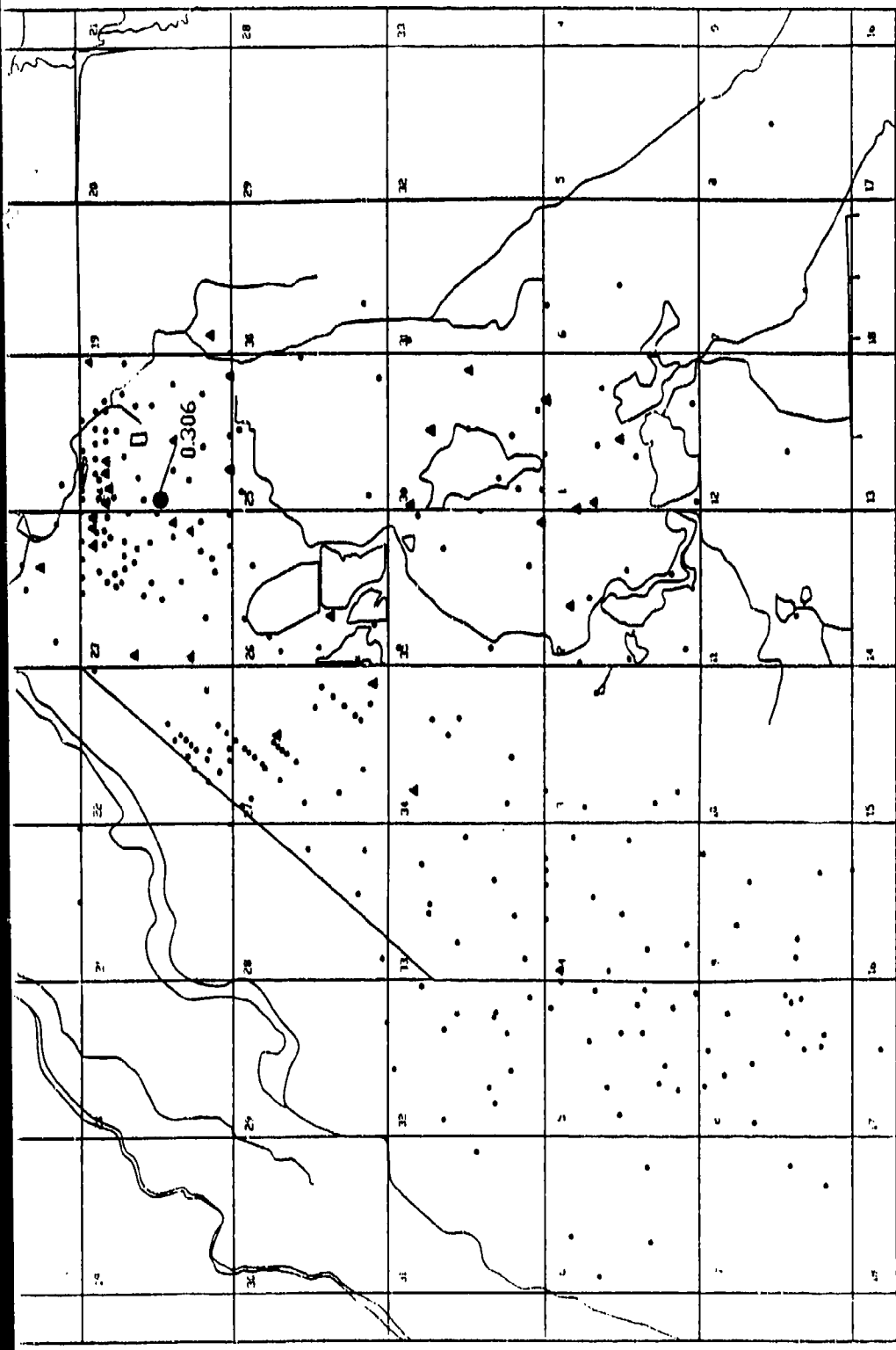
HEXACHLOROCYCLOPENTADIENE DETECTIONS UNCONFINED
GROUNDWATER FLOW SYSTEM 3RD QUARTER, FY 1987

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

SOURCE: Hunter/ESE, 1988

Aberdeen Proving Ground, Maryland





EXPLANATION

- Alluvial Well
- Alluvial Detection, Units in ugt./172.00
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ugt./10.0

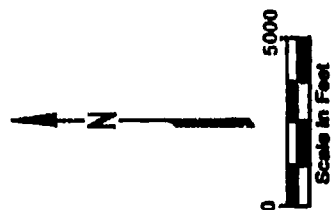
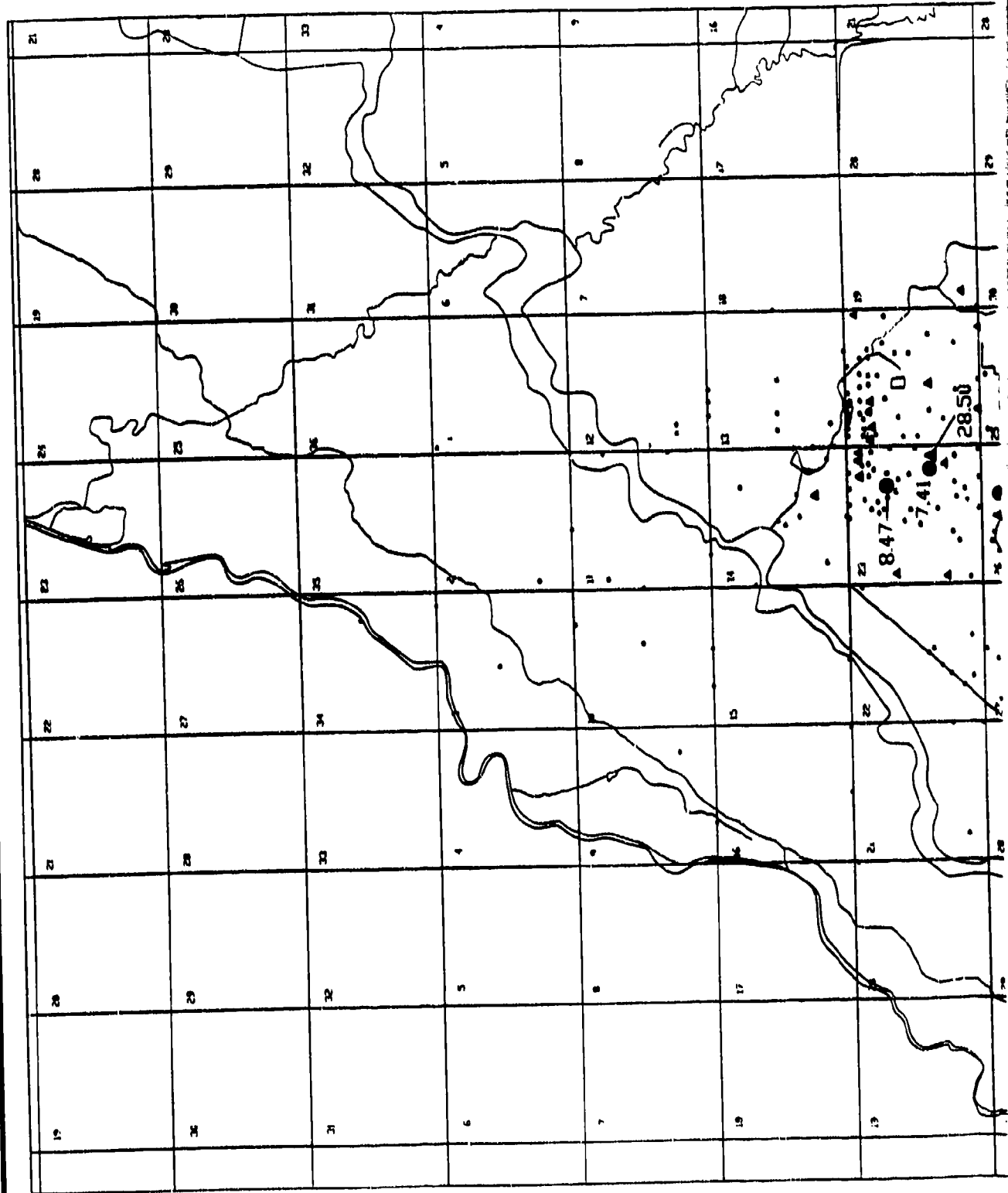
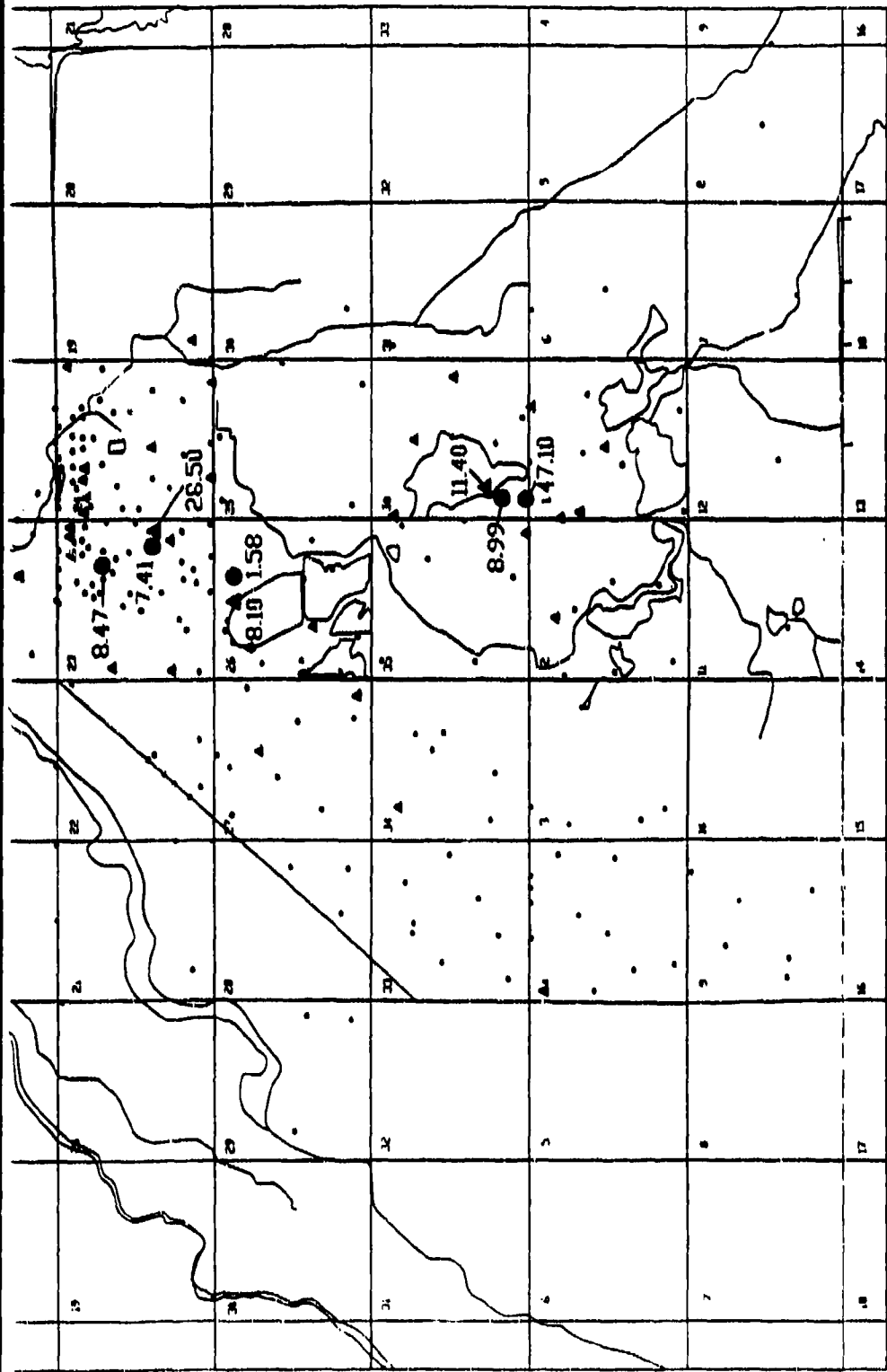


Figure D-15

CHLORDANE DETECTIONS UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland





EXPLANATION

- Alluvial Well
- Alluvial Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/l

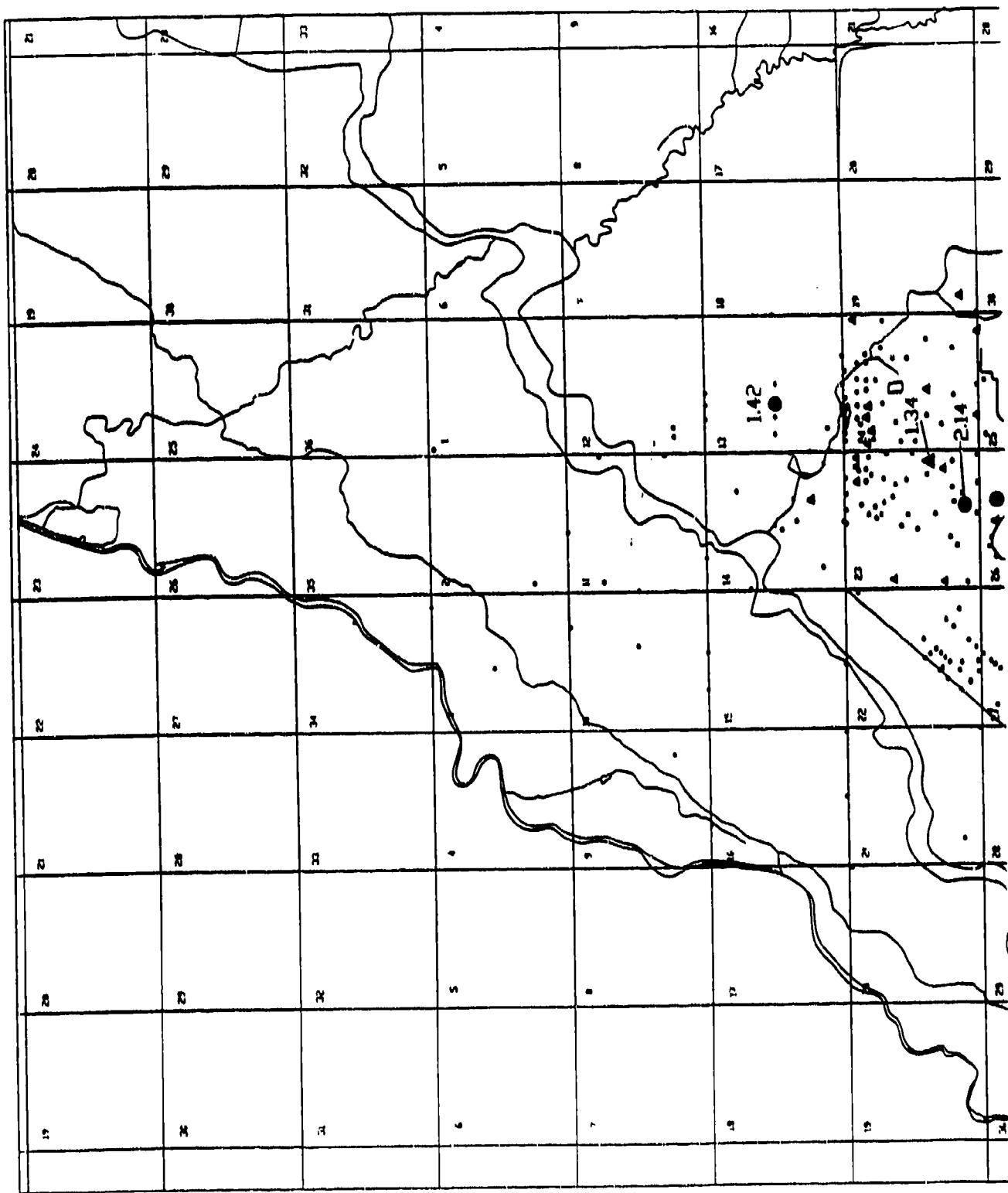
Figure D-16

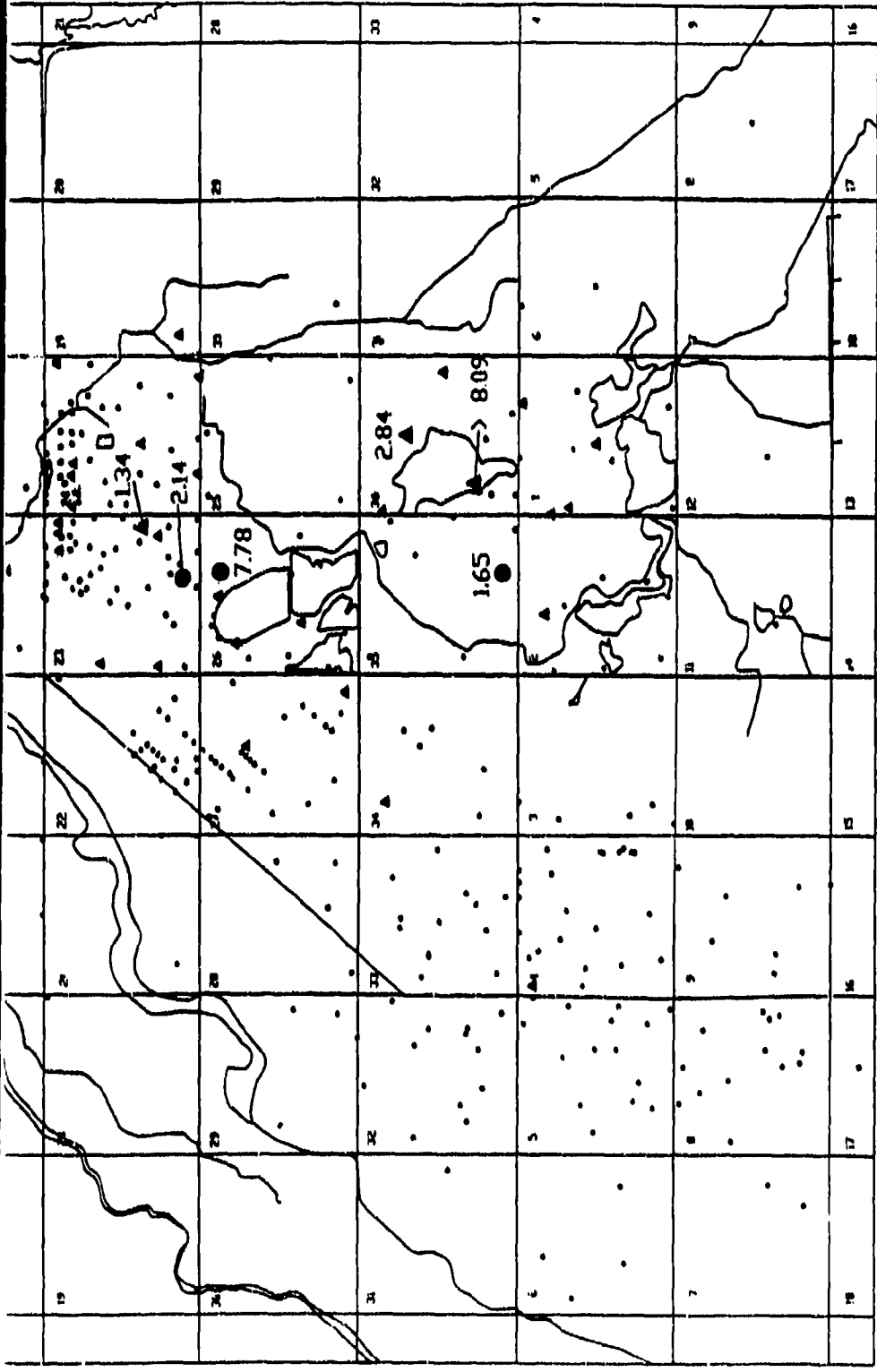
DMDS DETECTIONS UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987

SOURCE: Hunter/ESSE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

200, T 44





EXPLANATION

- Alluvial Well
- Alluvial Detection, Units In ug/l.
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

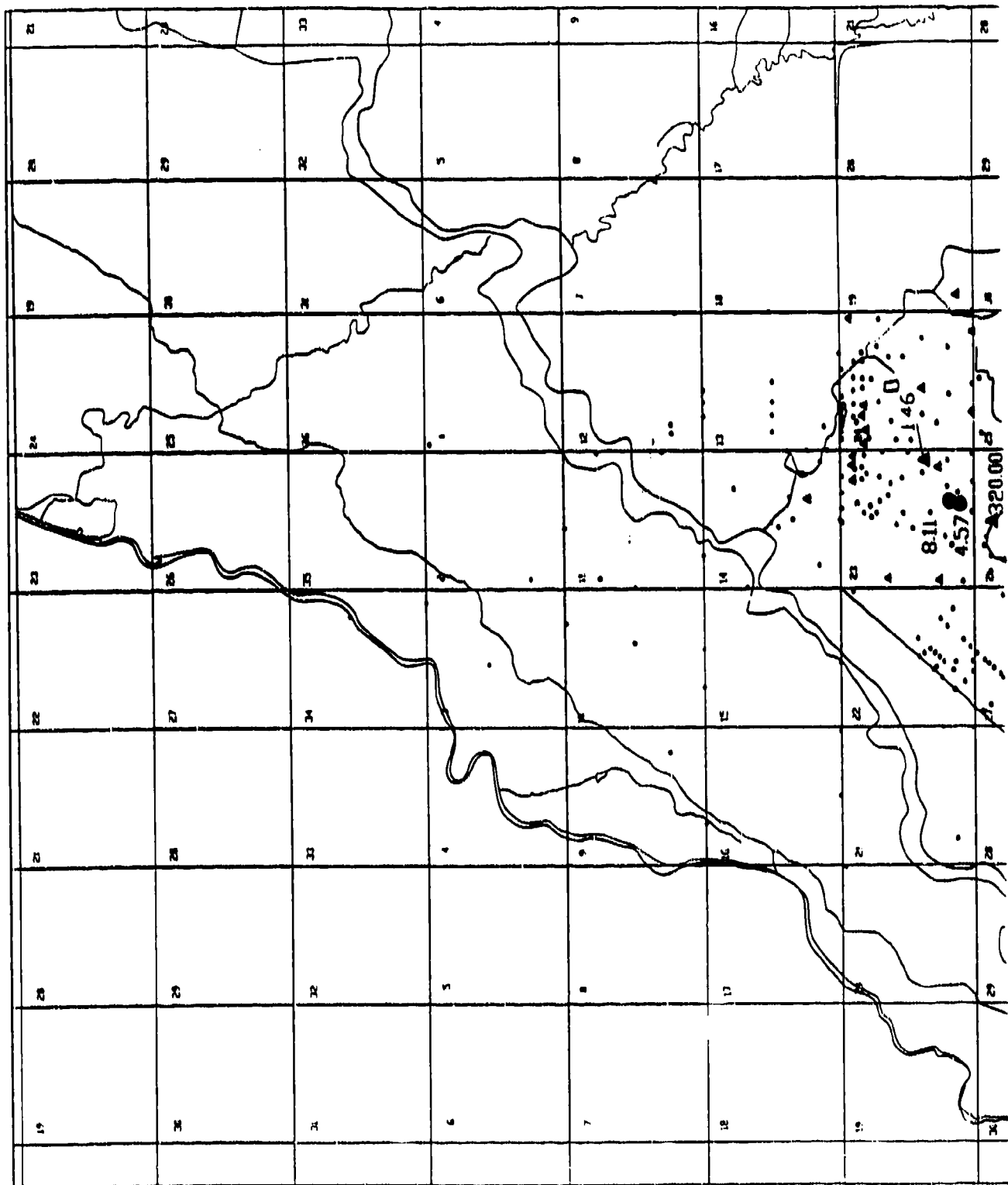
Figure D-17

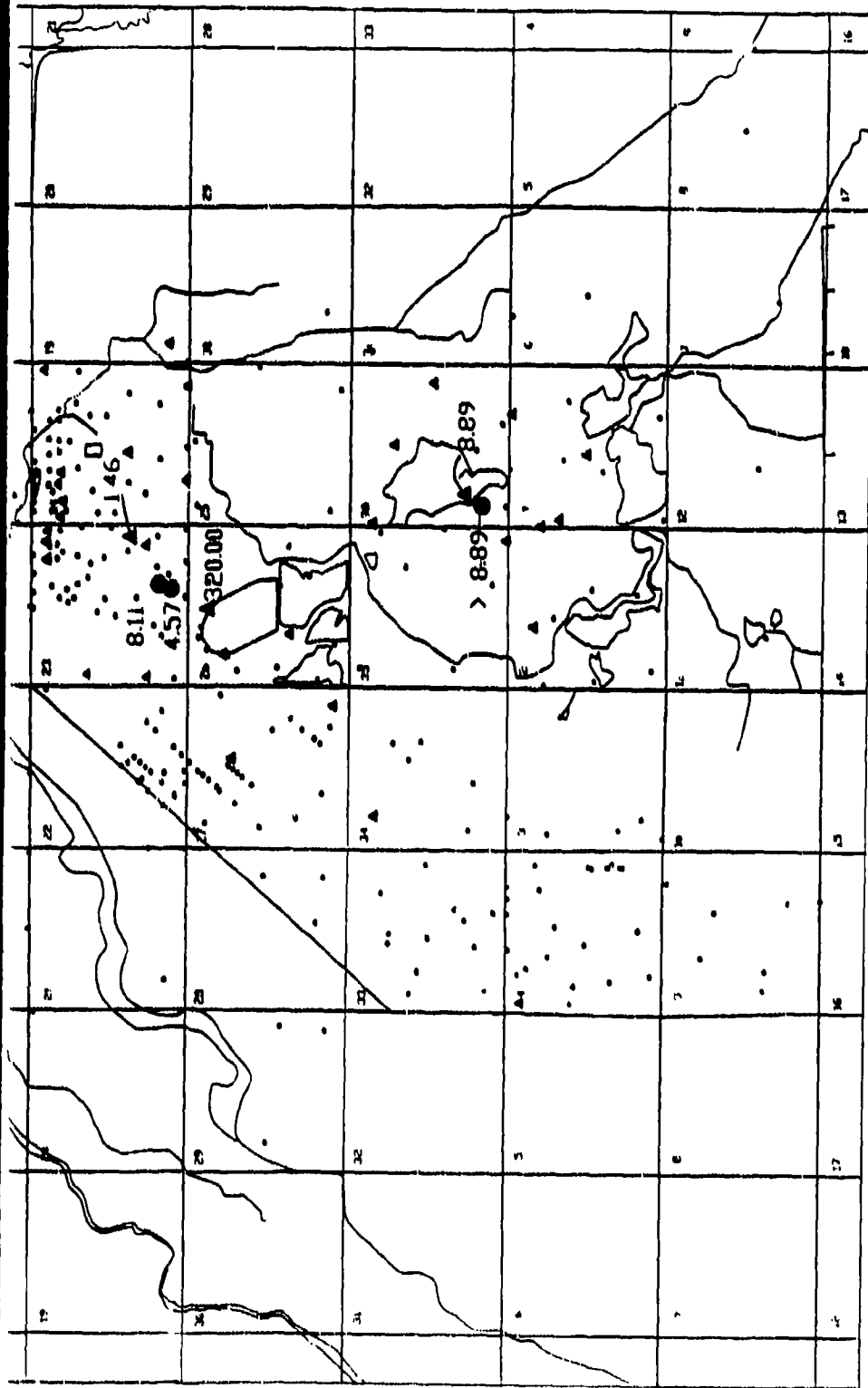
ETHYLBENZENE DETECTIONS UNCONFINED GROUNDWATER FLOW
SYSTEM 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

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EXPLANATION

- Alluvial Well
- Alluvial Detection, Units in ug/L
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/L

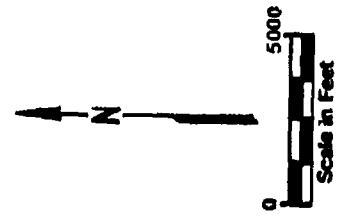
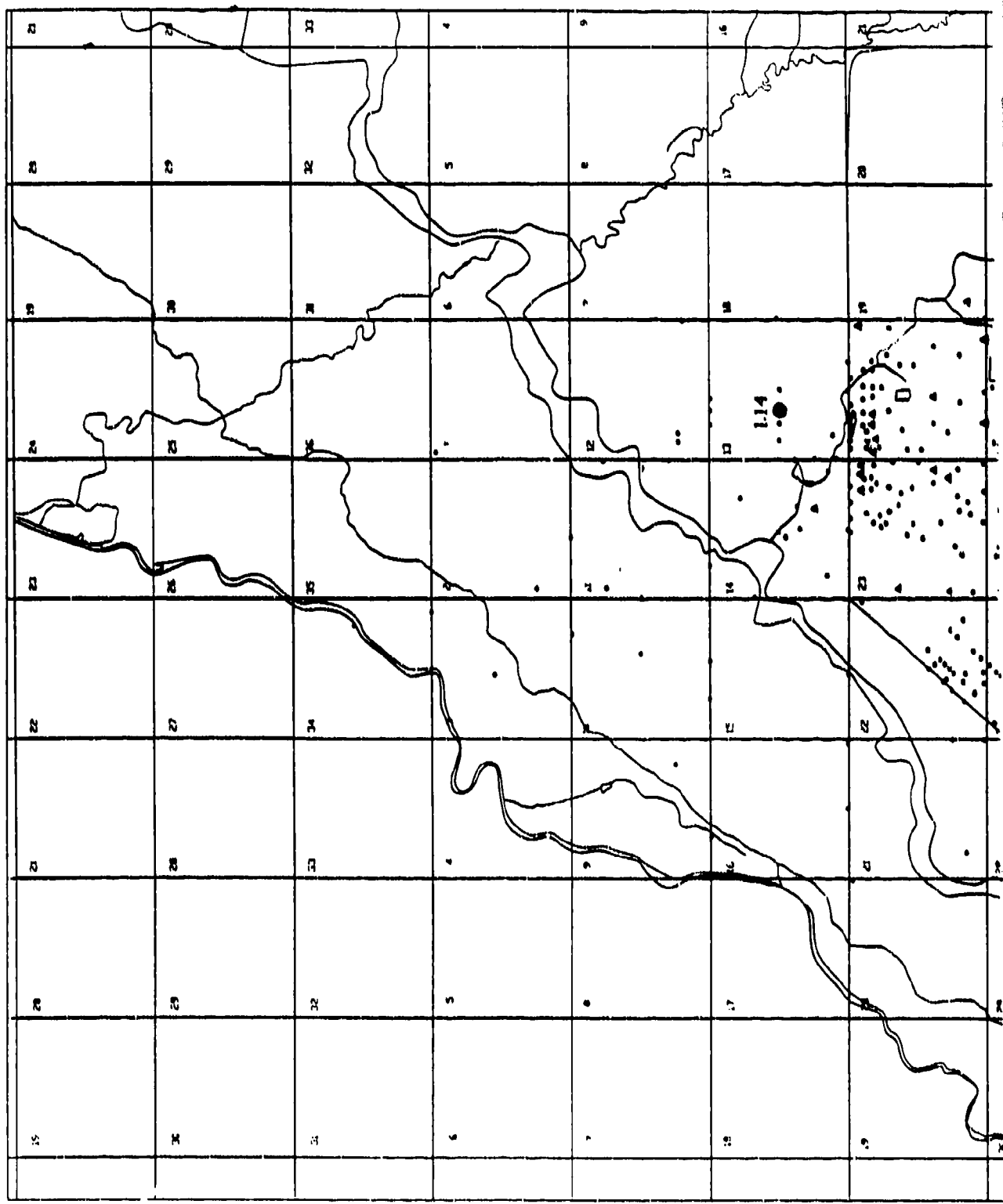
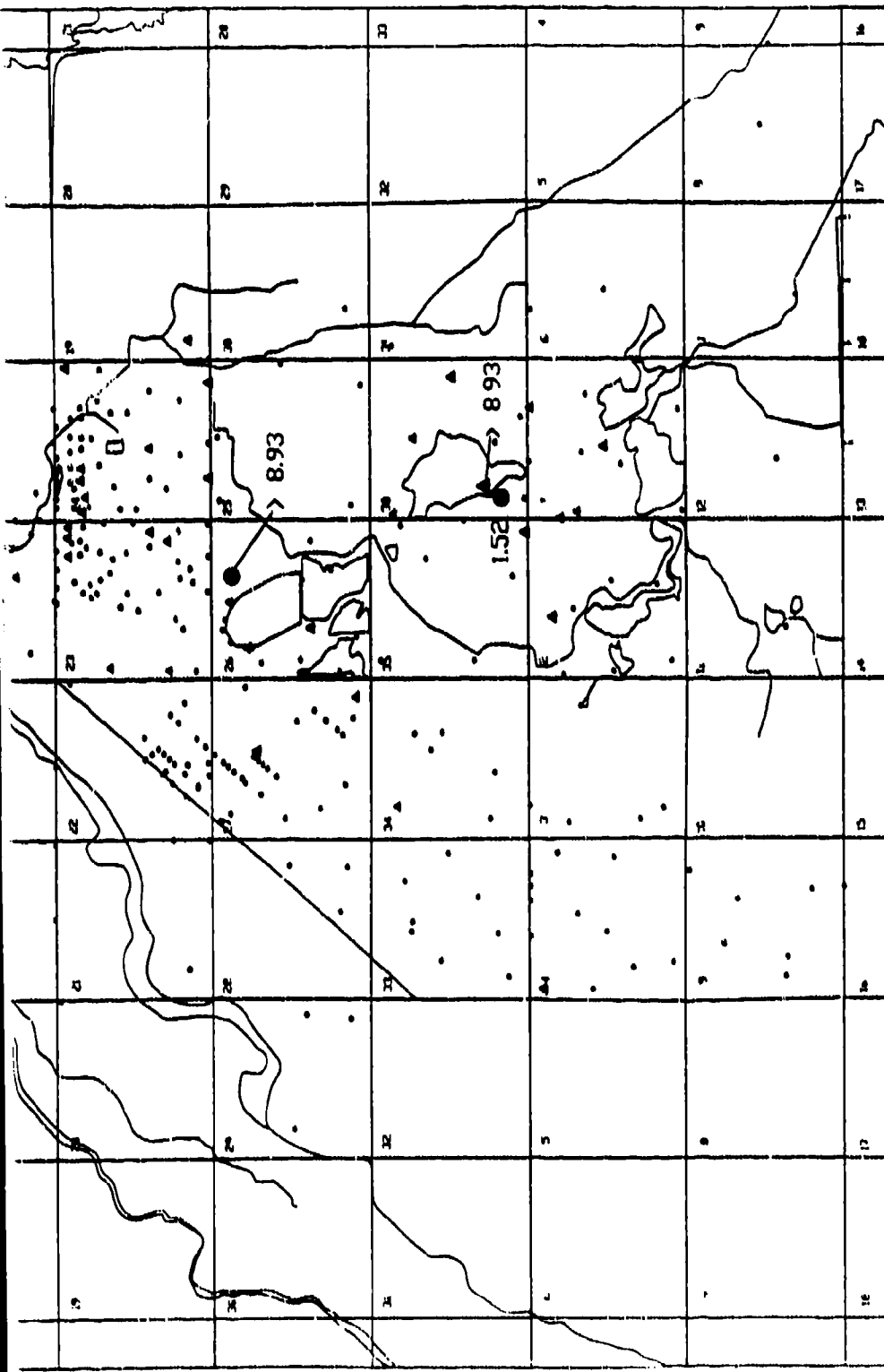


Figure D-18

TOLUENE DETECTIONS UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland





EXPLANATION

- Alluvial Well
- Alluvial Detection, Units in ug/l. 172.00
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/l. 10.0

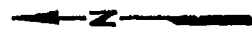
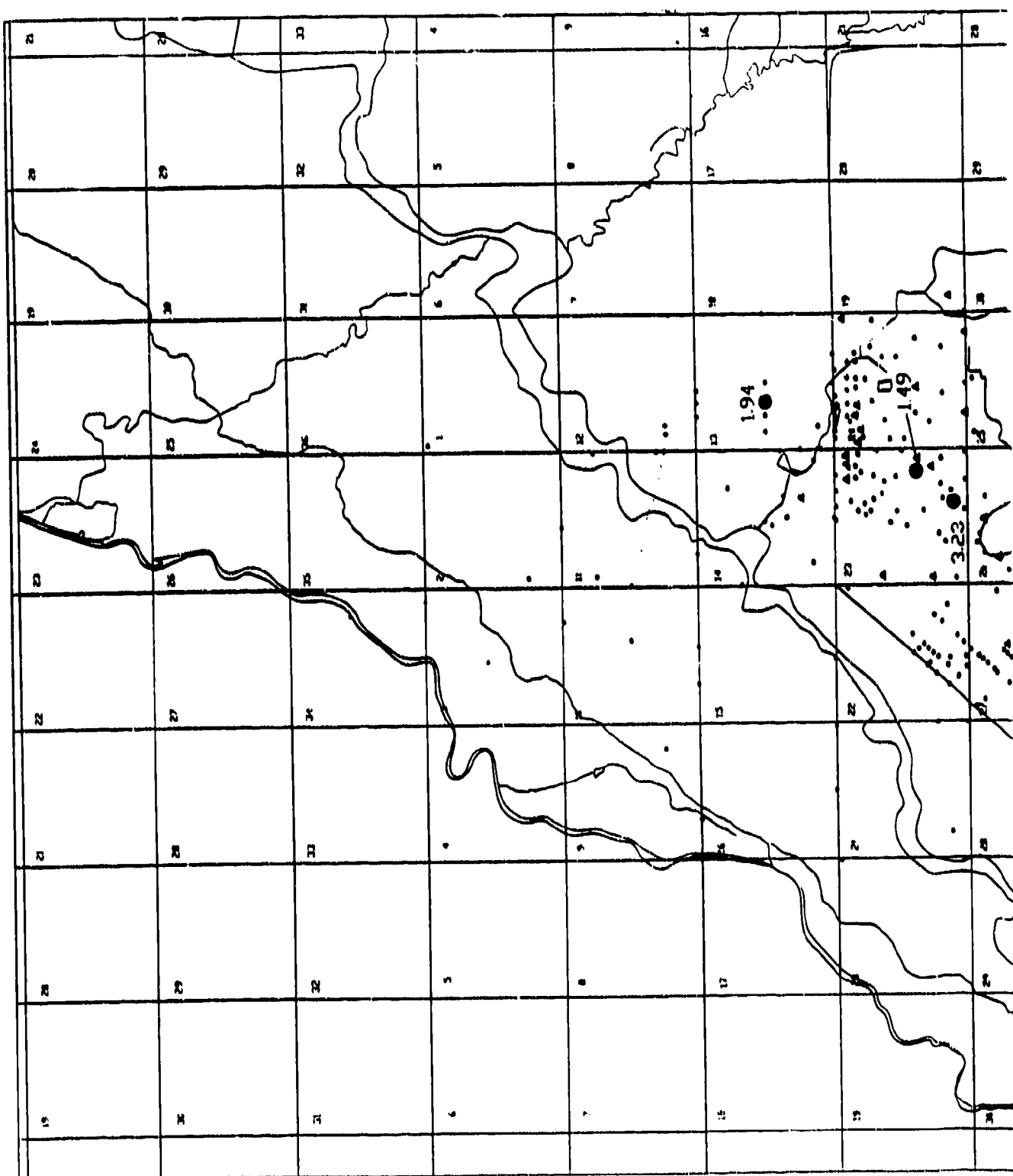


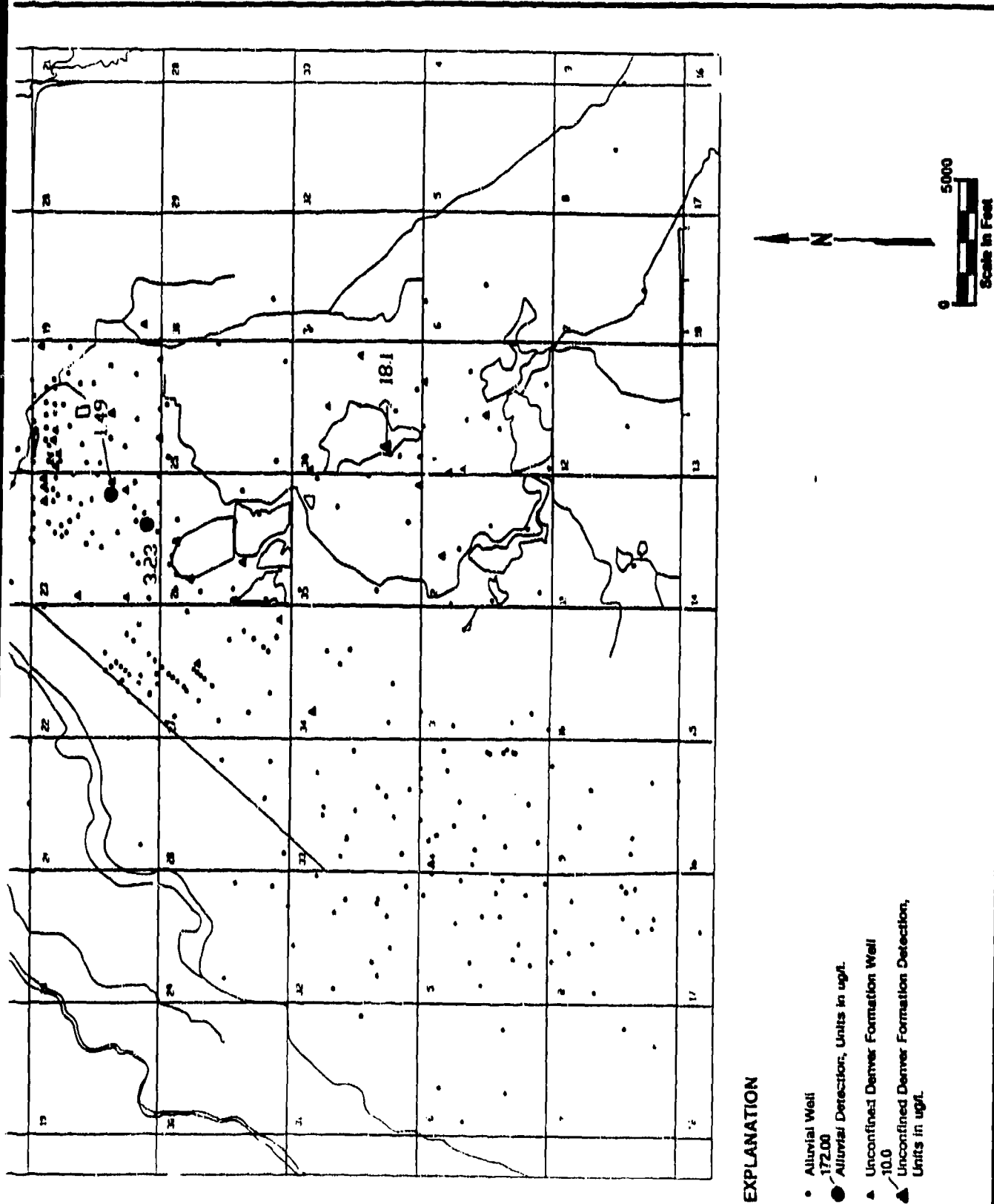
Figure D-19

M-XYLENE DETECTIONS UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

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EXPLANATION

- Alluvial Well
- Alluvial Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/l

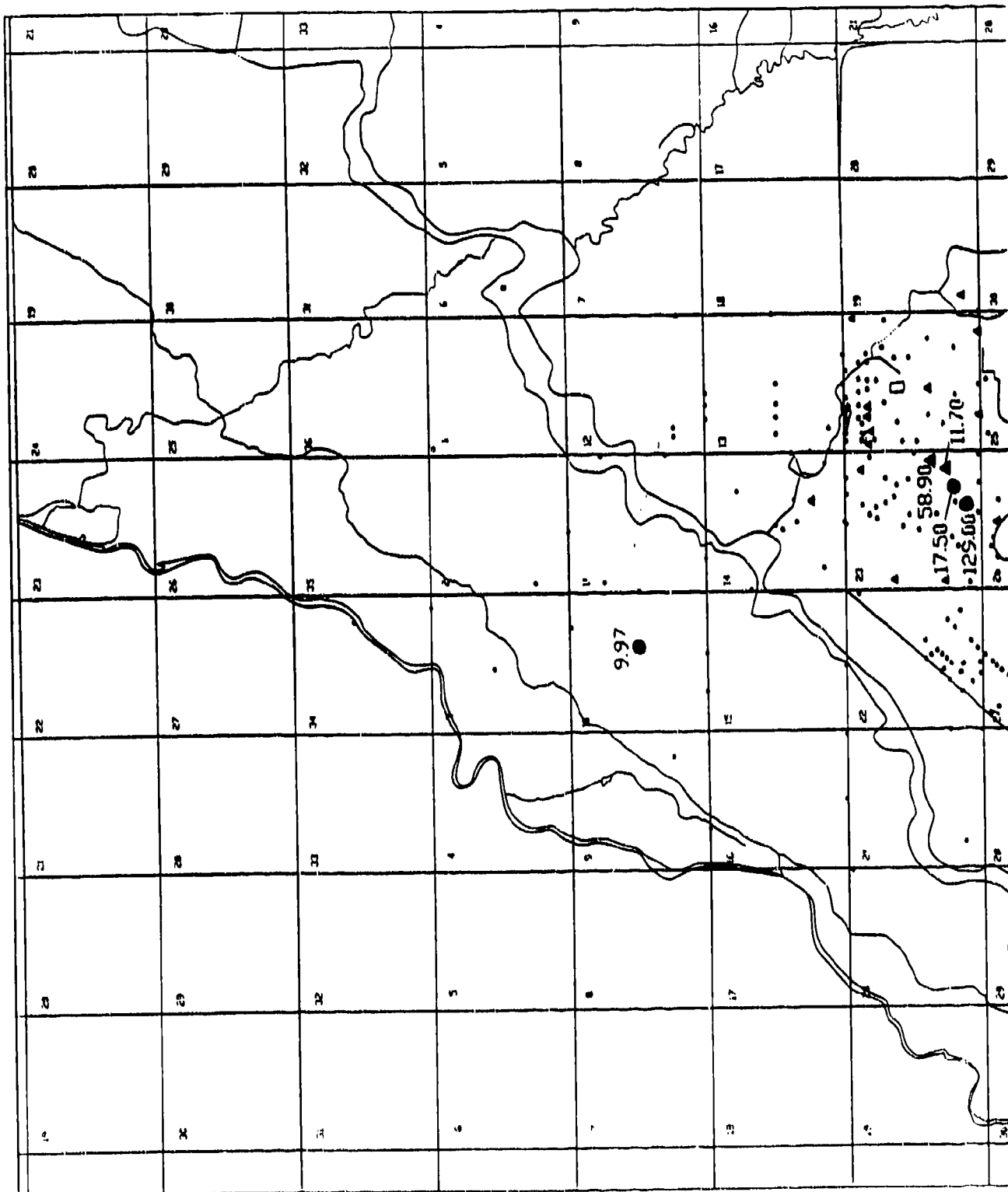
Figure D-20

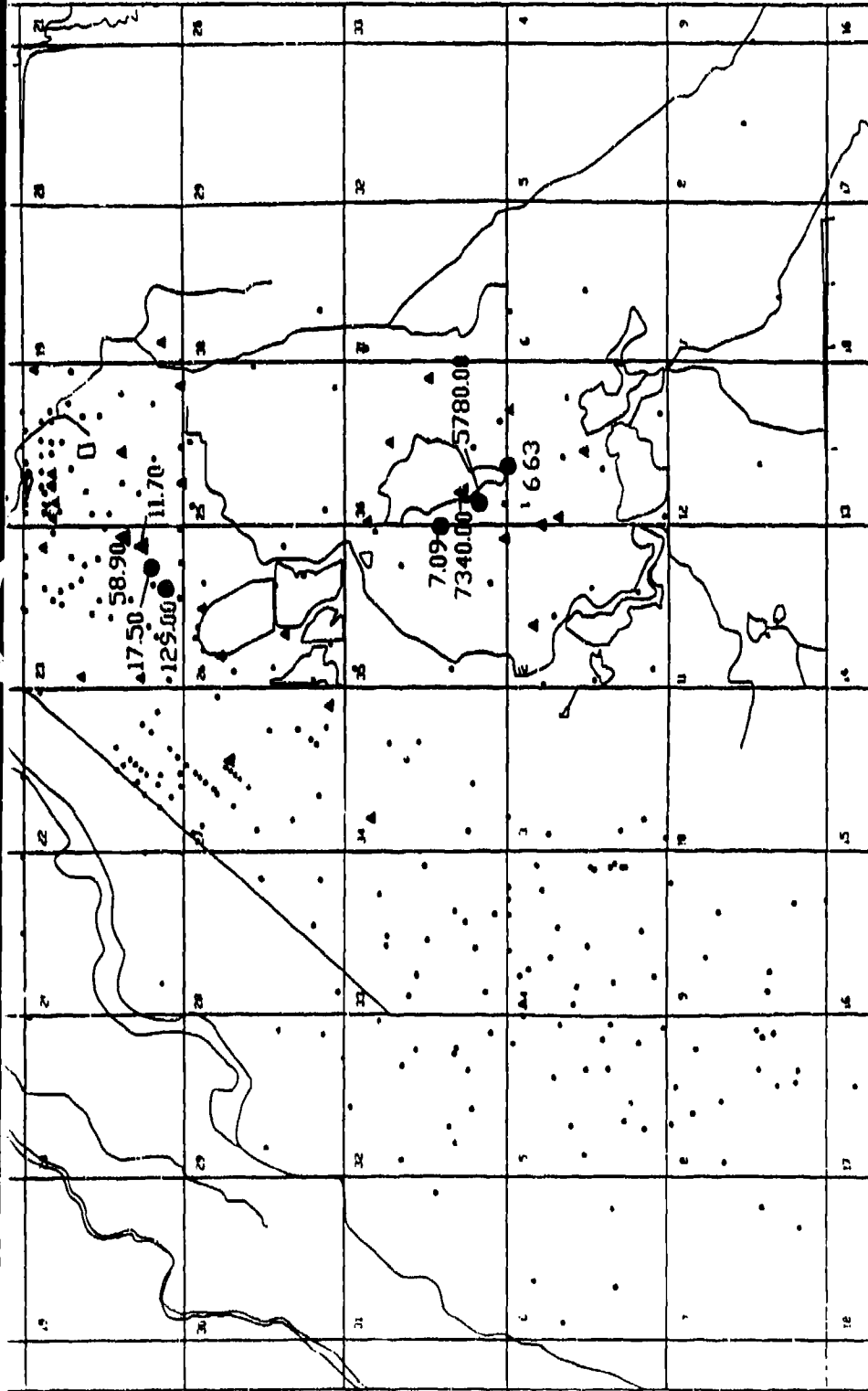
O,P-XYLENE DETECTIONS UNCONFINED GROUNDWATER FLOW
SYSTEM 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

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EXPLANATION

- Alluvial Well
- Alluvial Detection, Units in ug/l.
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

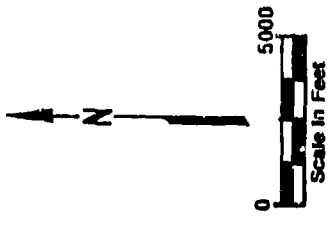
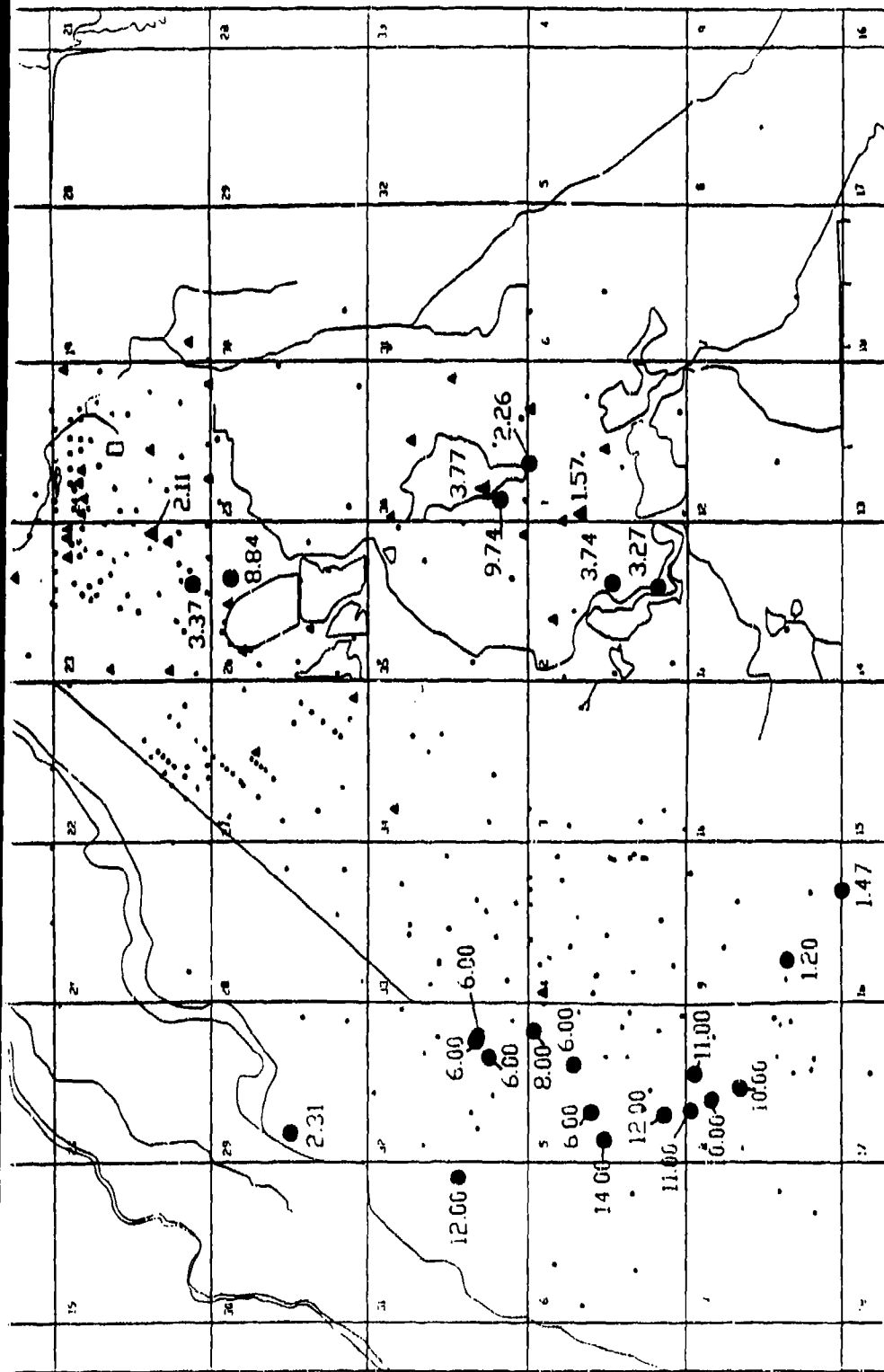


Figure D-21

METHYLENE CHLORIDE DETECTIONS UNCONFINED GROUNDWATER
FLOW SYSTEM 3RD QUARTER, FY 1987

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

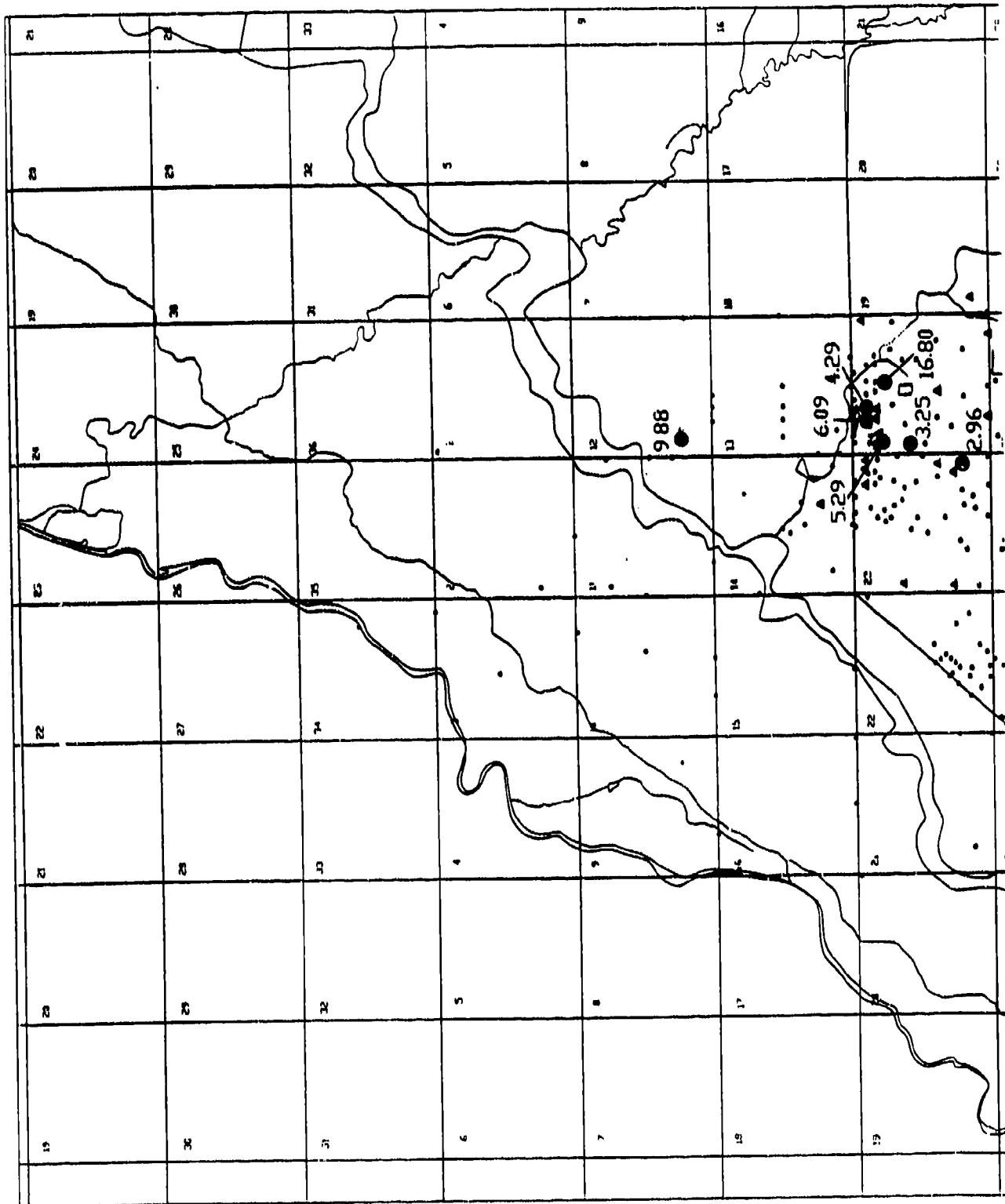
- Alluvial Well
- Alluvial Detection, Units in ug/l.
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

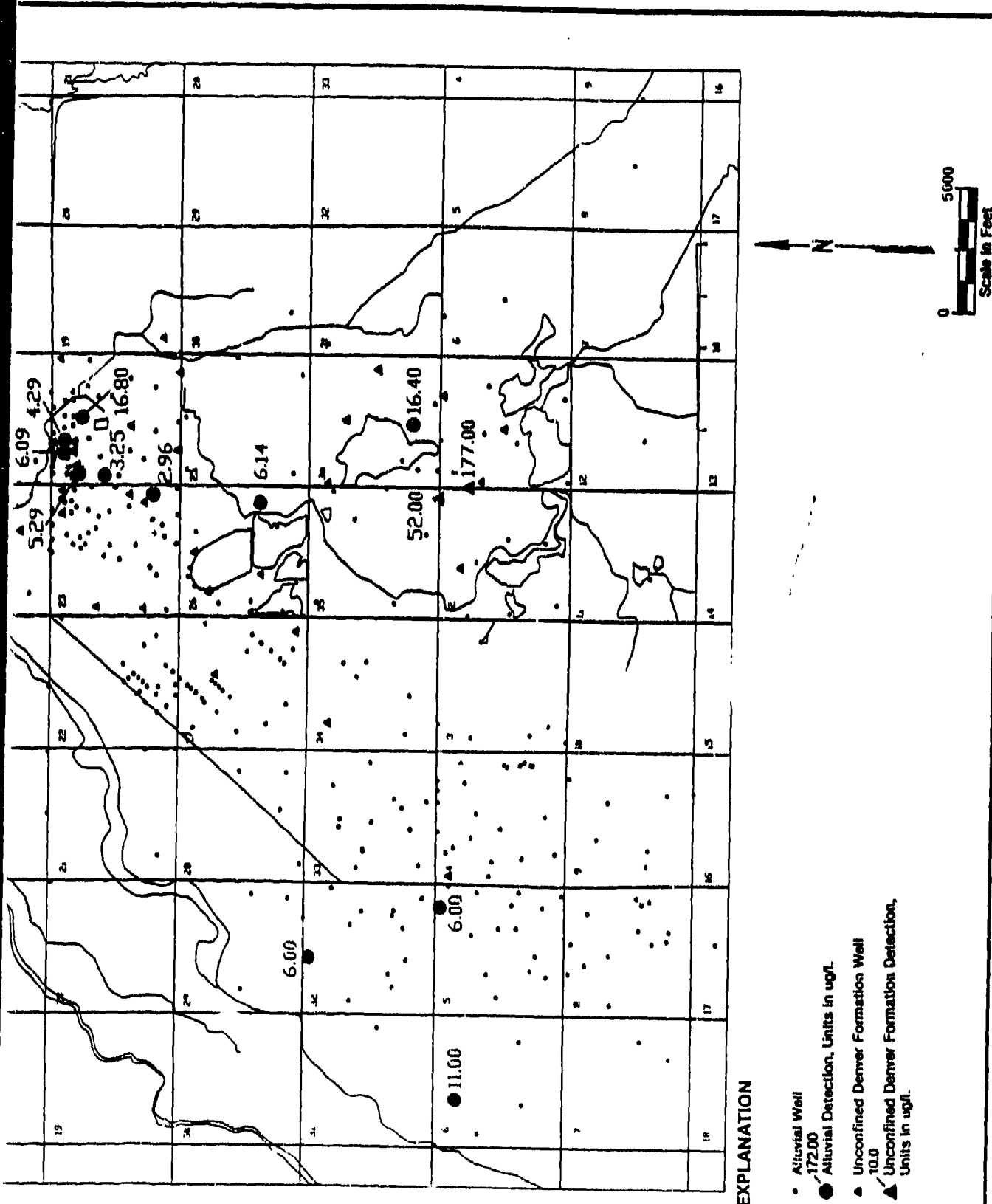
Figure D-22

11 DICHOROETHANE DETECTIONS UNCONFINED GROUNDWATER
FLOW SYSTEM 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland





EXPLANATION

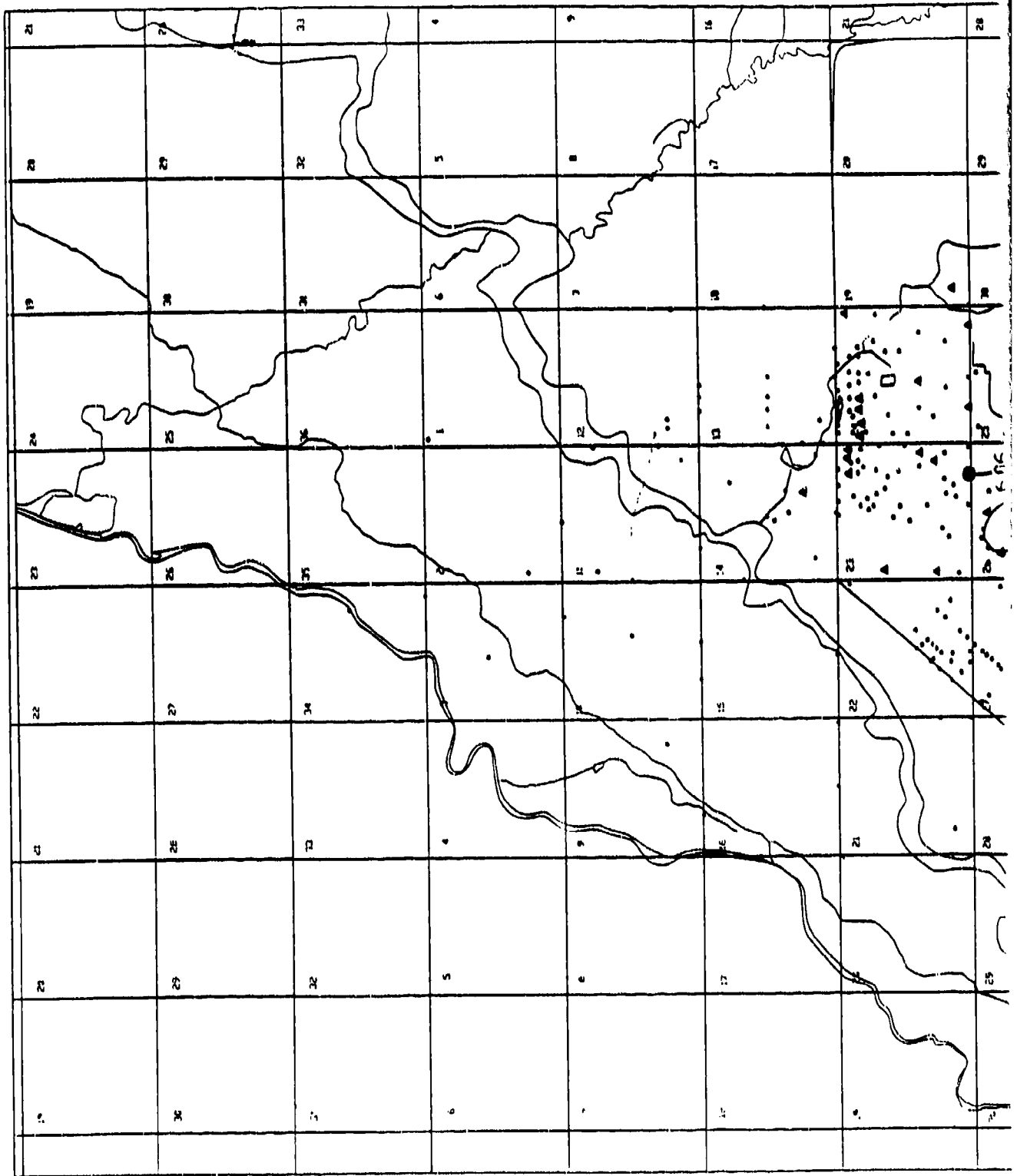
- Alluvial Well
- Alluvial Detection, Units in ug/l.
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

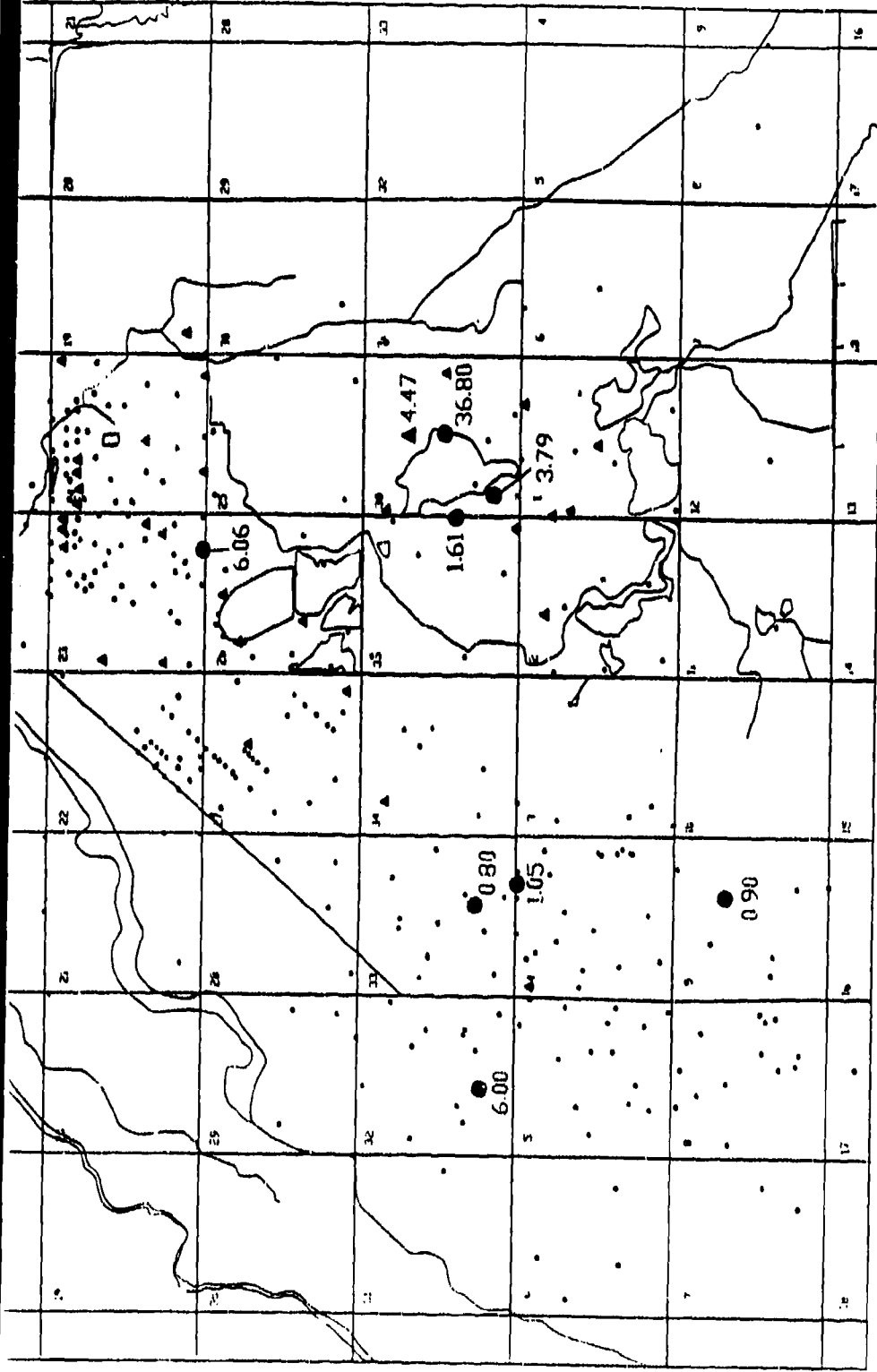
Figure D-23

CARBON TETRACHLORIDE DETECTIONS UNCONFINED GROUNDWATER
FLOW SYSTEM 3RD QUARTER, FY 1987

SOURCE: Hunter/ESI, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland





EXPLANATION

- Alluvial Well
- Alluvial Detection, Units in ug/l.
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/l.



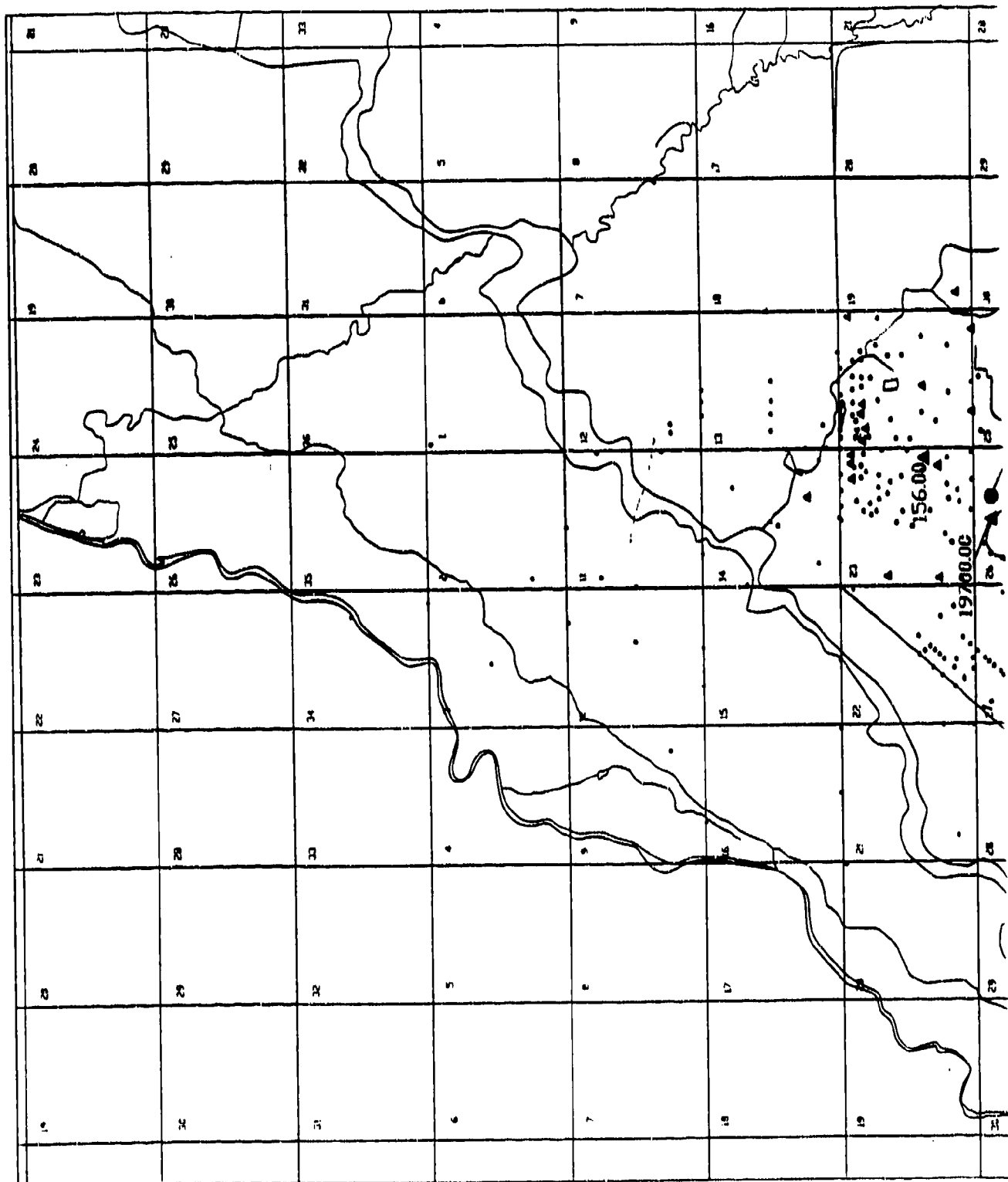
Figure D-24

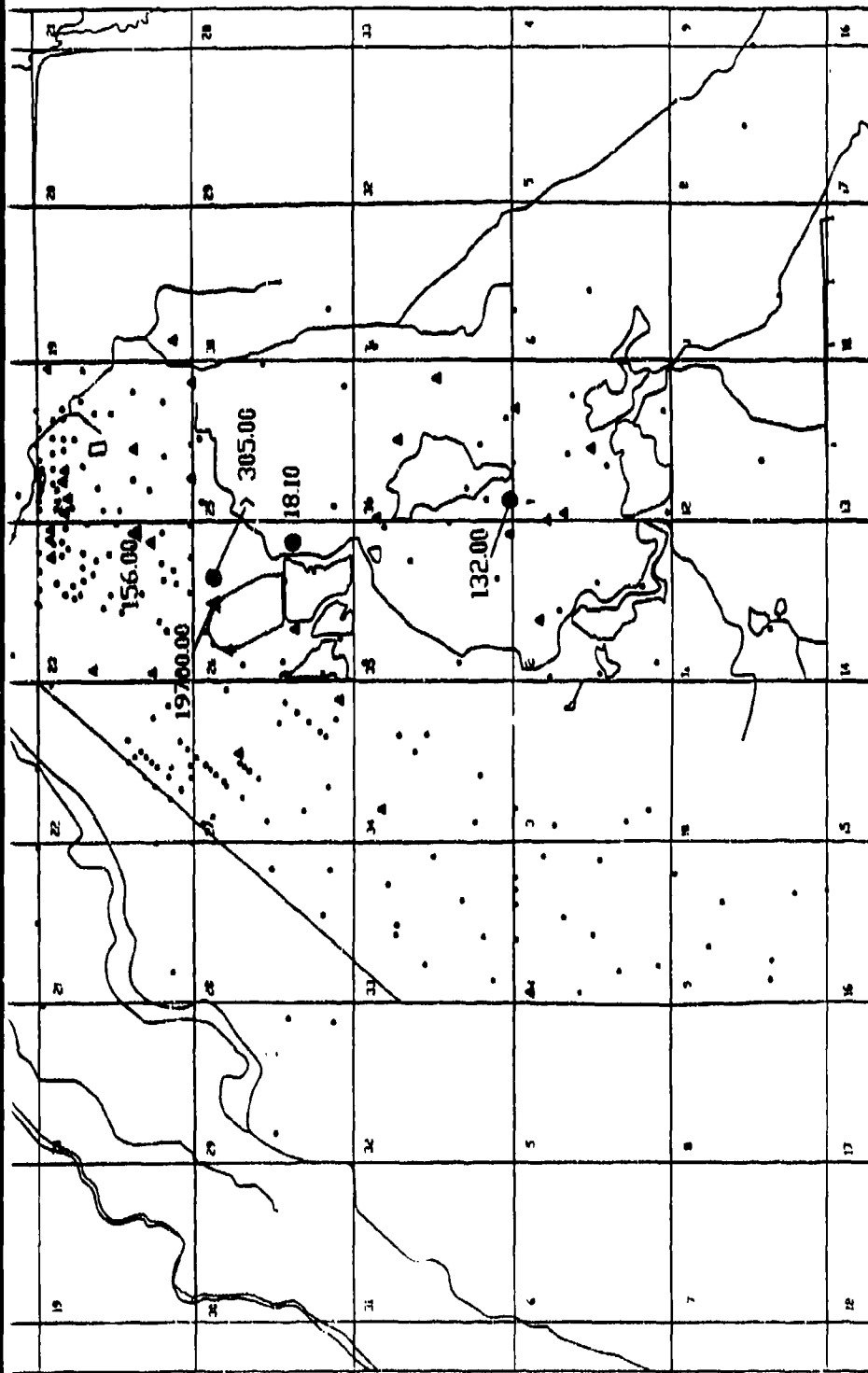
**112 TRICHLOROETHANE DETECTIONS UNCONFINED GROUNDWATER
FLOW SYSTEM 3RD QUARTER, FY 1987**

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal**

SOURCE: Hunter/ESE, 1988

Aberdeen Proving Ground, Maryland





EXPLANATION

- Alluvial Well
- Alluvial Detection, Units in ug/l.
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

Figure D-25

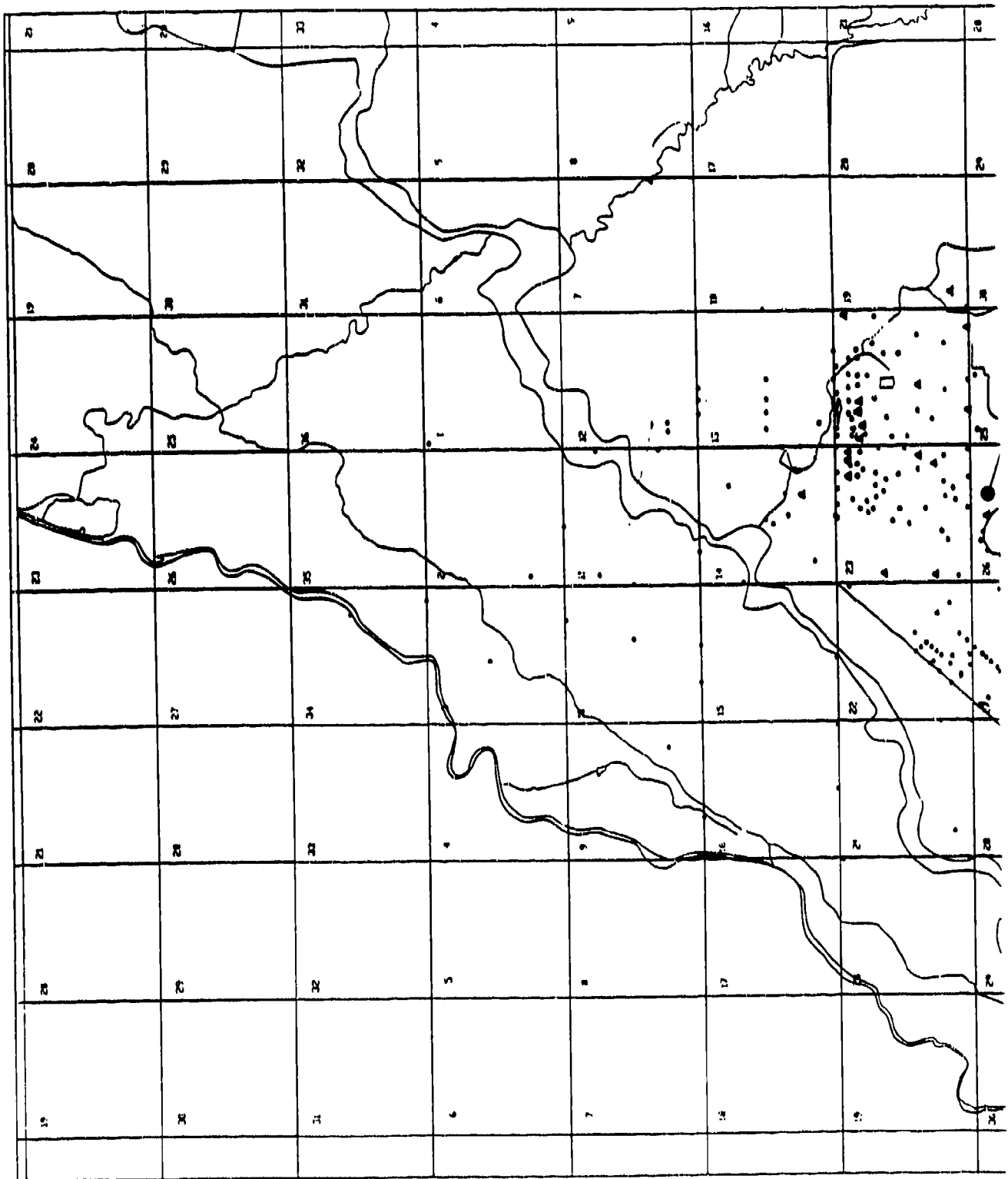
DMMP DETECTIONS UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987

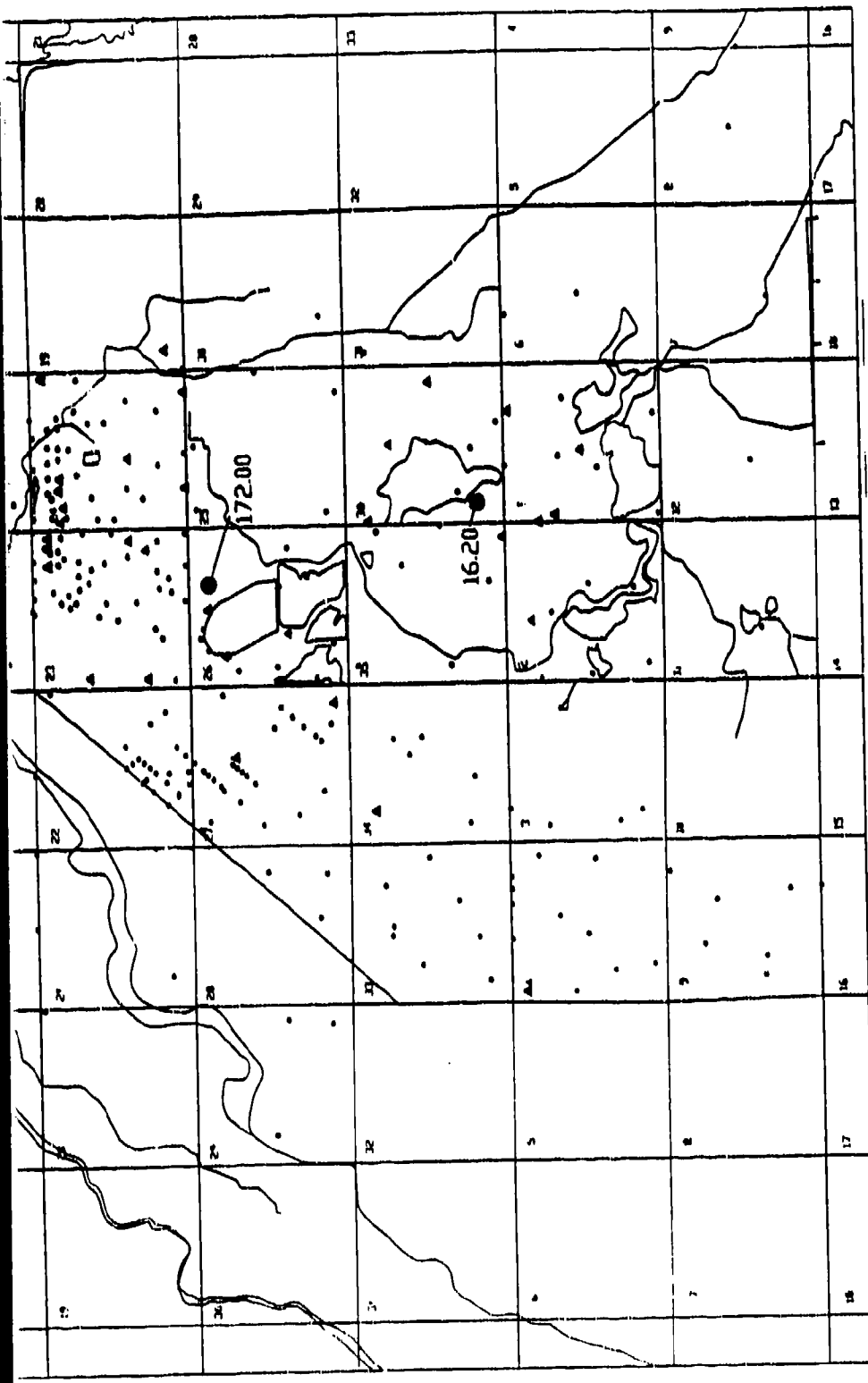
Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

SOURCE: Hunter/ISE, 1988

Aberdeen Proving Ground, Maryland

DATE, T 44





EXPLANATION

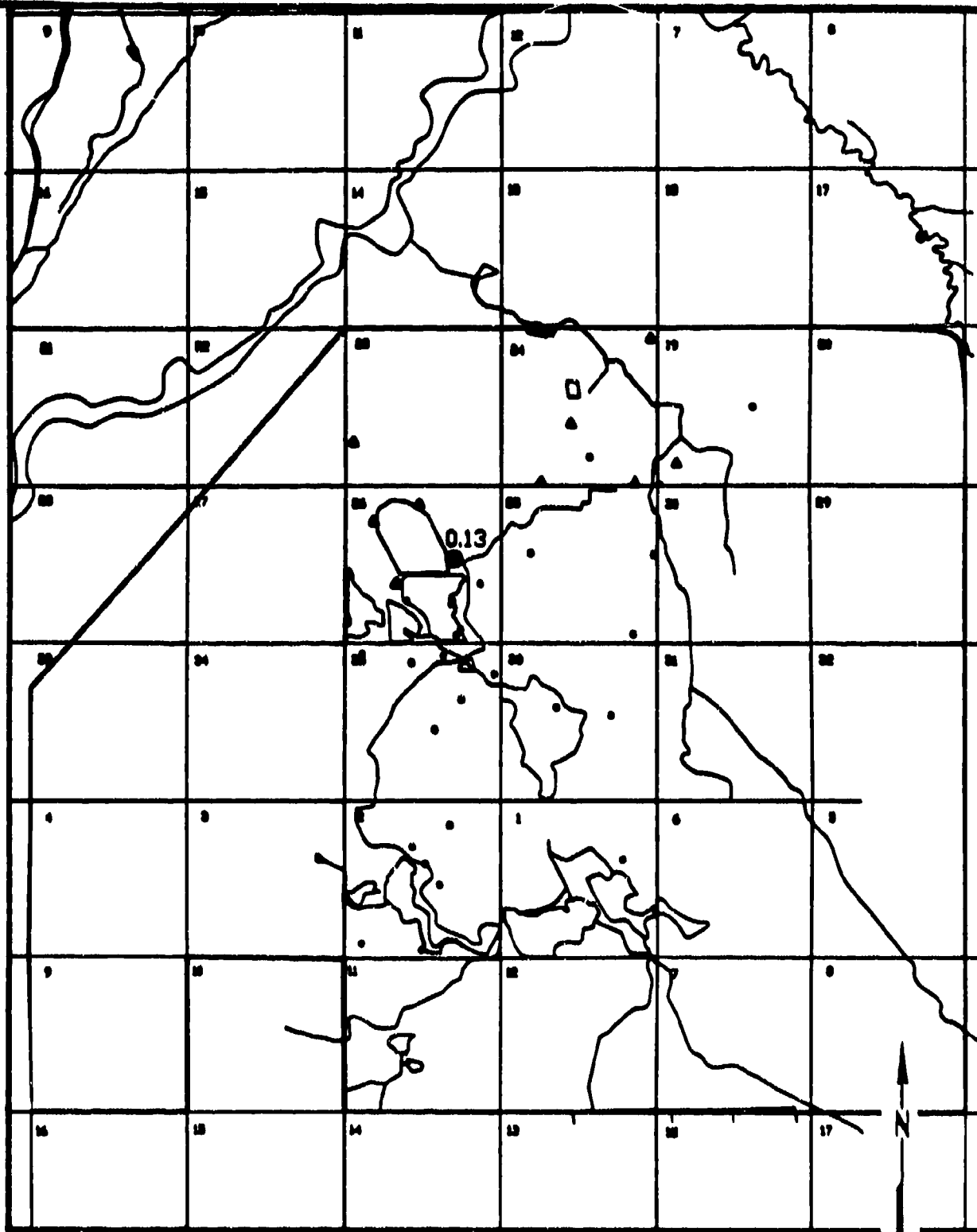
- Alluvial Well
- Alluvial Detection, Units in ug/l.
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

Figure D-26

**MIBK DETECTIONS UNCONFINED GROUNDWATER FLOW SYSTEM
3RD QUARTER, FY 1987**

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**

APPENDIX D.5: DENVER FM POINTS PLOTS (D-27 TO D-168)

**EXPLANATION**

• Denver Well

● 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

10.0

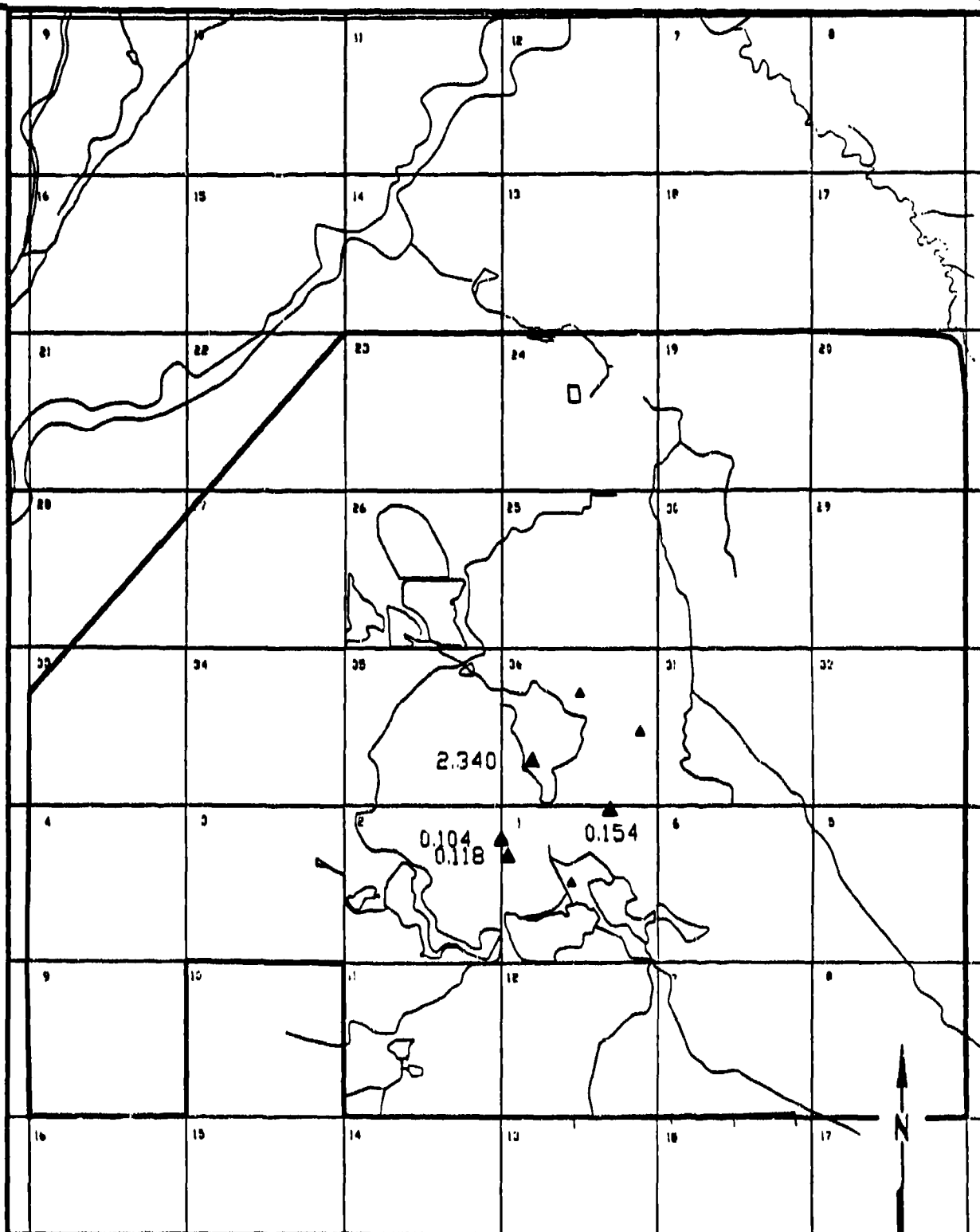
▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-27
ALDRIN DETECTIONS DENVER ZONE 1
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1986

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

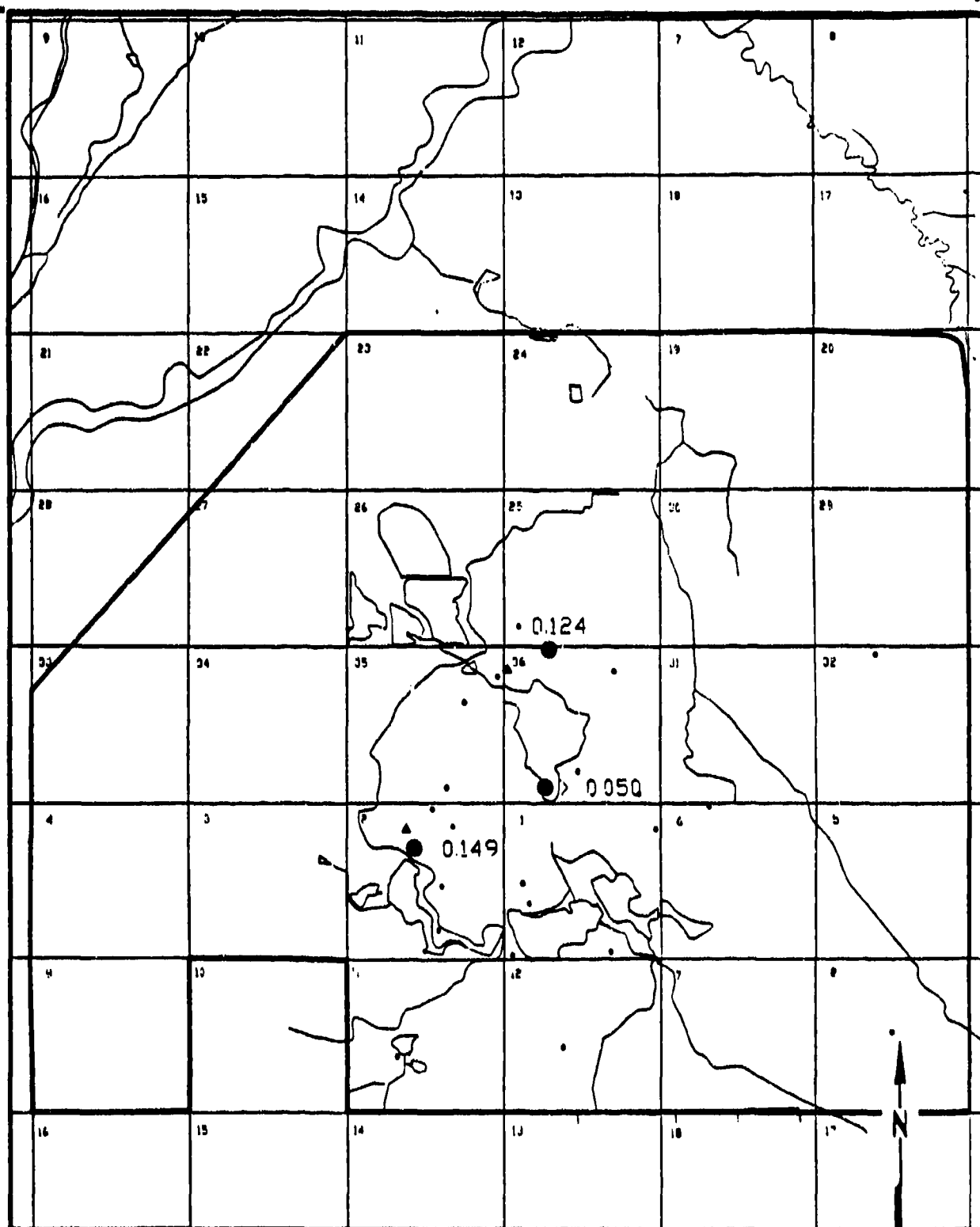
- ▲ Unconfined Denver Formation Well
- 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-28
DIELDRIN DETECTIONS DENVER ZONE
VC/VCE 3RD QUARTER FY 1987

SOURCE: Hunter/ESB, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

• Denver Well

• 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

▲ 10.0

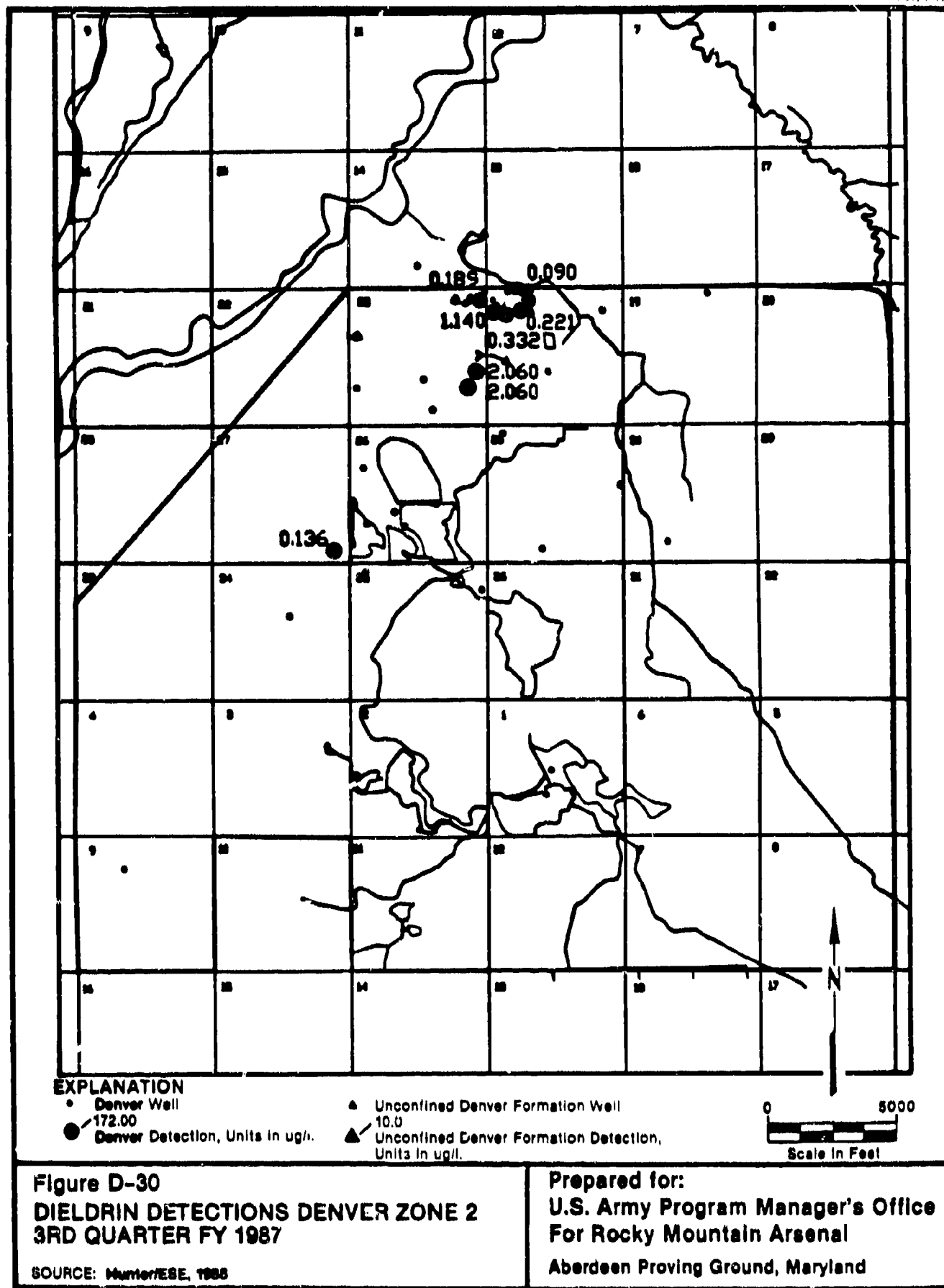
▲ Unconfined Denver Formation Detection, Units in ug/l.

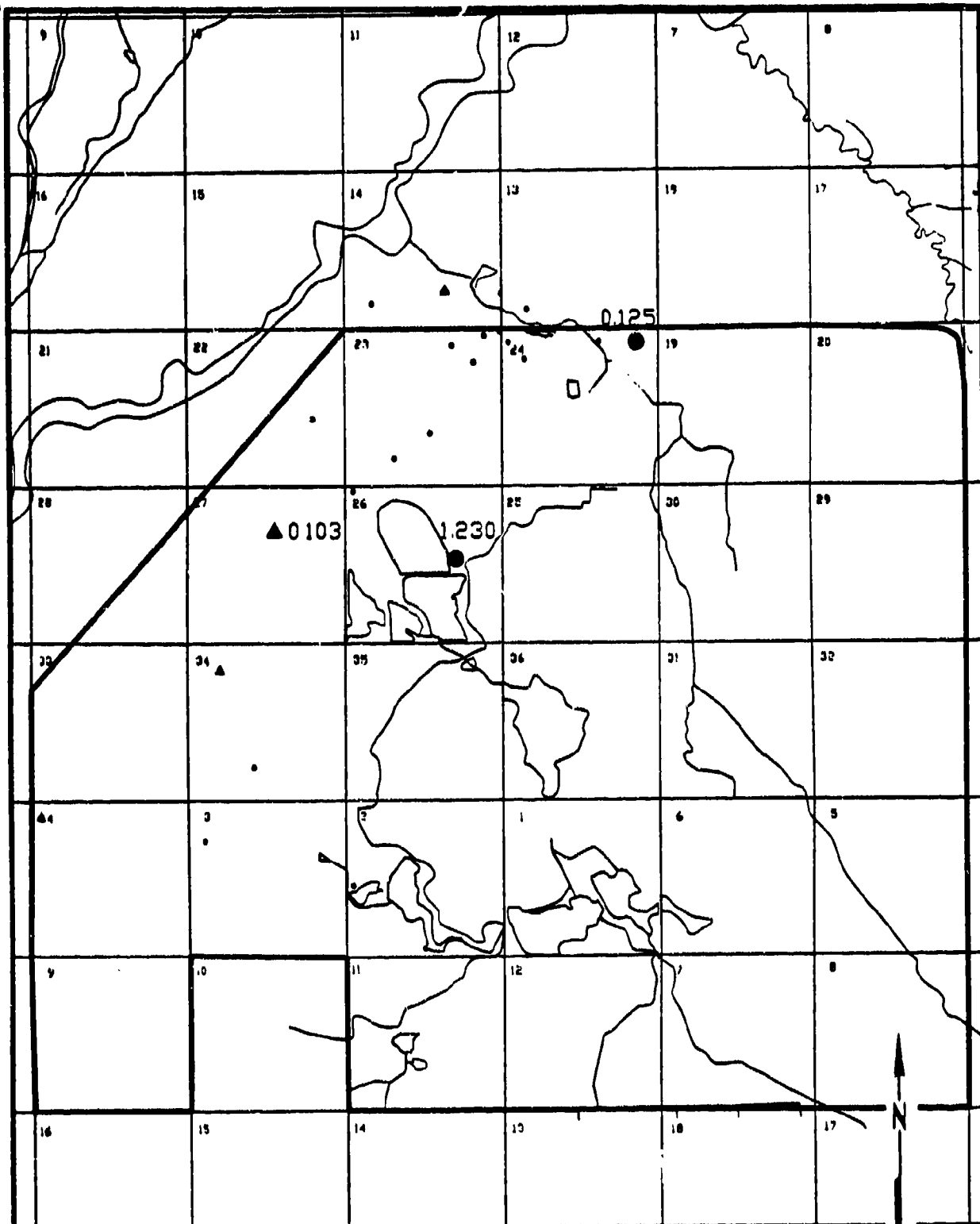
0 5000
Scale in Feet

Figure D-29
DIELDRIN DETECTIONS DENVER ZONE A
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



**EXPLANATION**

- Denver Well
- 172.00
Denver Detection, Units in ug/l.

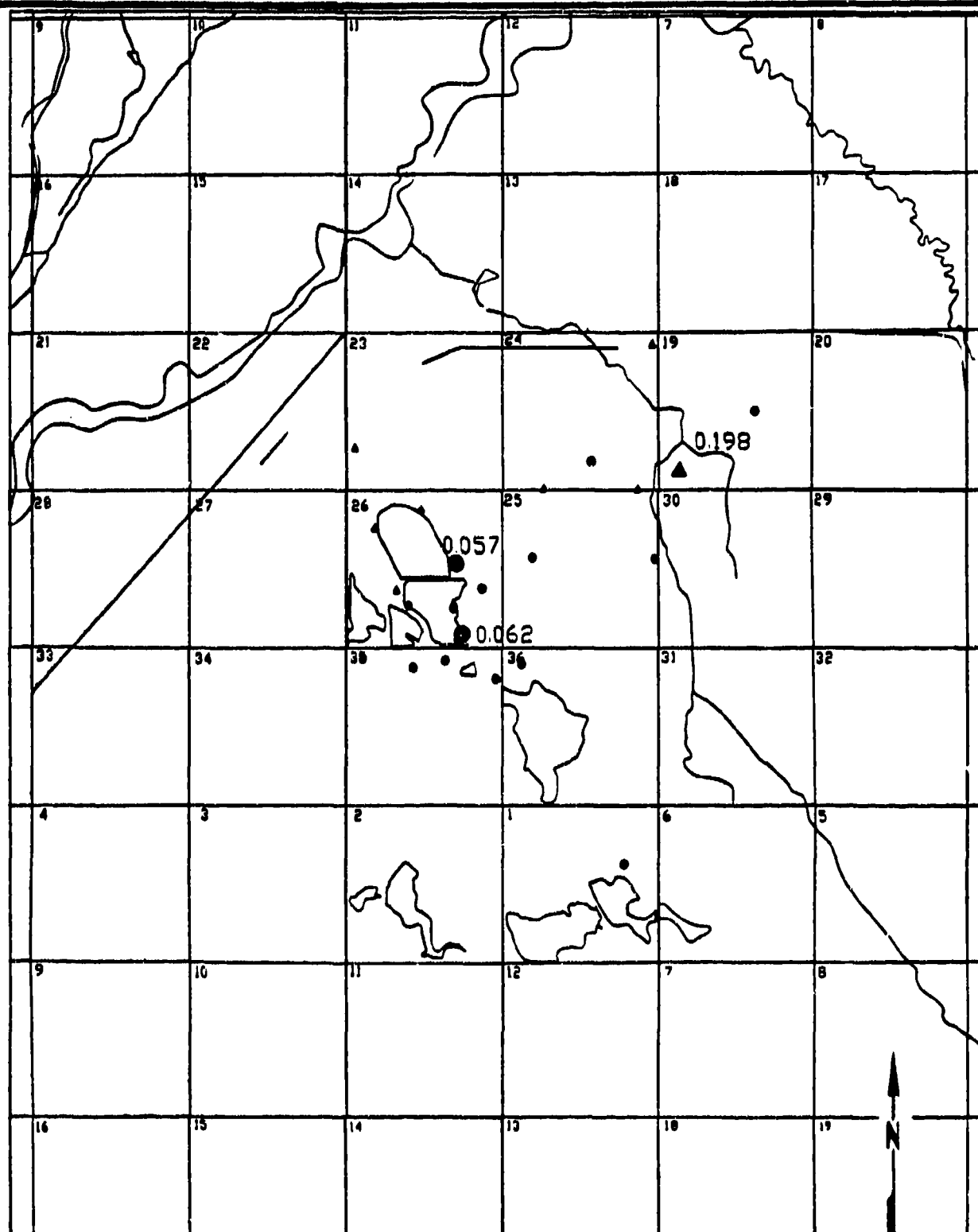
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
Unconfined Denver Formation Detection,
Units in ug/l.

0 5000
Scale in Feet

Figure D-31
DIELDRIN DETECTIONS DENVER ZONE 3
3RD QUARTER FY 1987

SOURCE: Numer/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection Units in ug/l

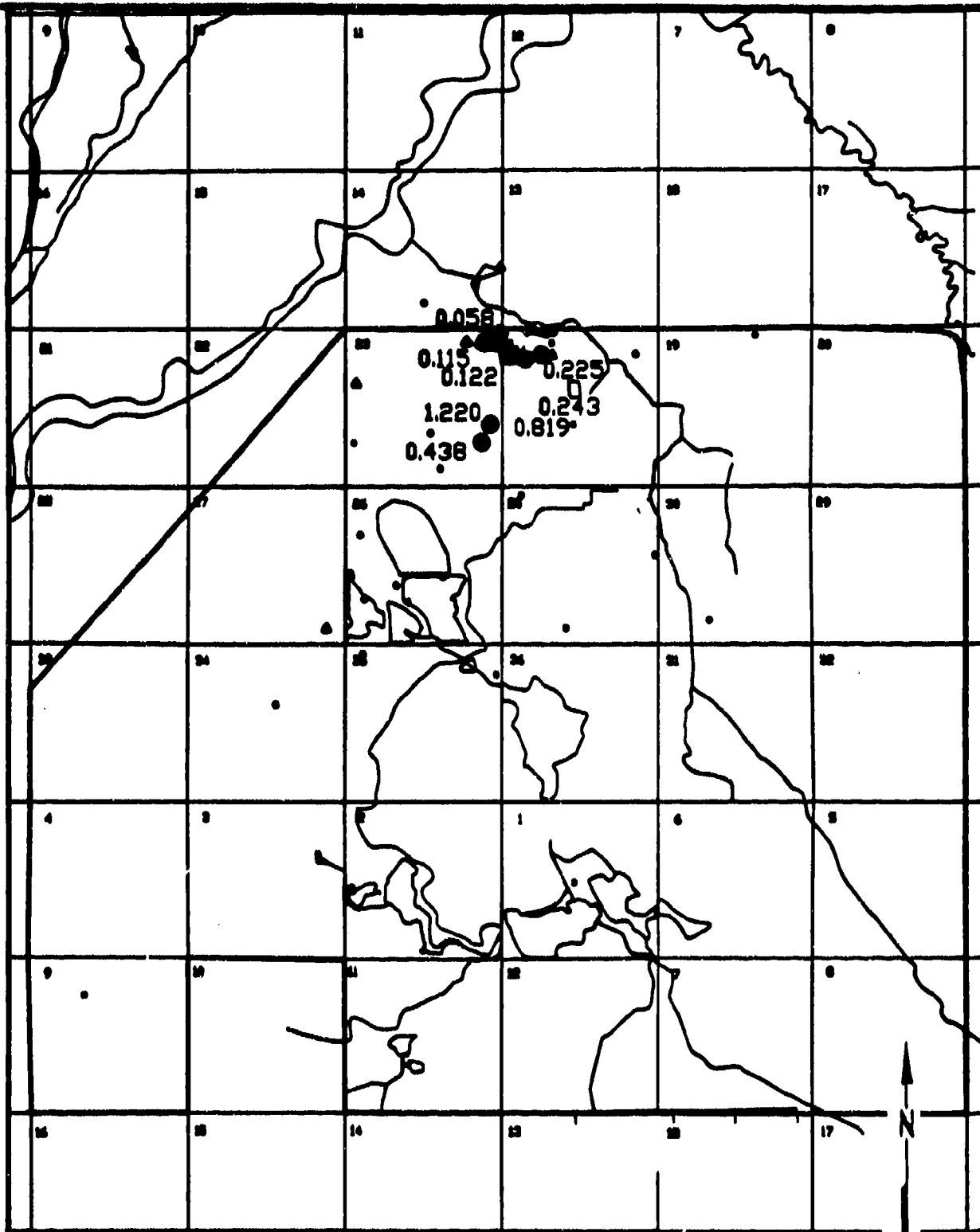
0 8000
Scale in Feet

Figure D-32

**ENDRIN DETECTIONS DENVER ZONE 1,
3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l.

- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection, Units in ug/l.

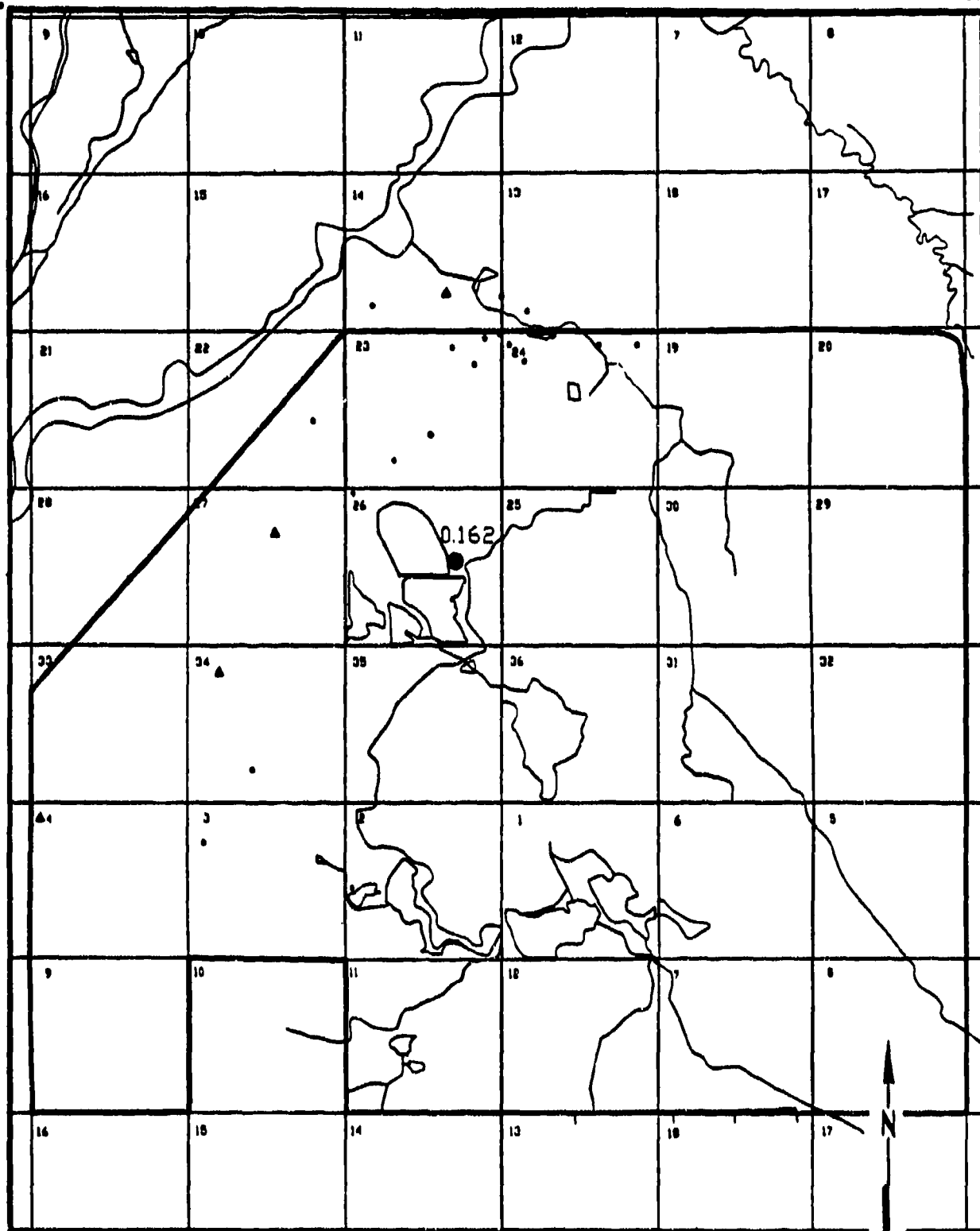
0 5000
Scale in Feet

Figure D-33

ENDRIIN DETECTIONS DENVER ZONE 2 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

• Denver Well

● 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

▲ 10.0

▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-34

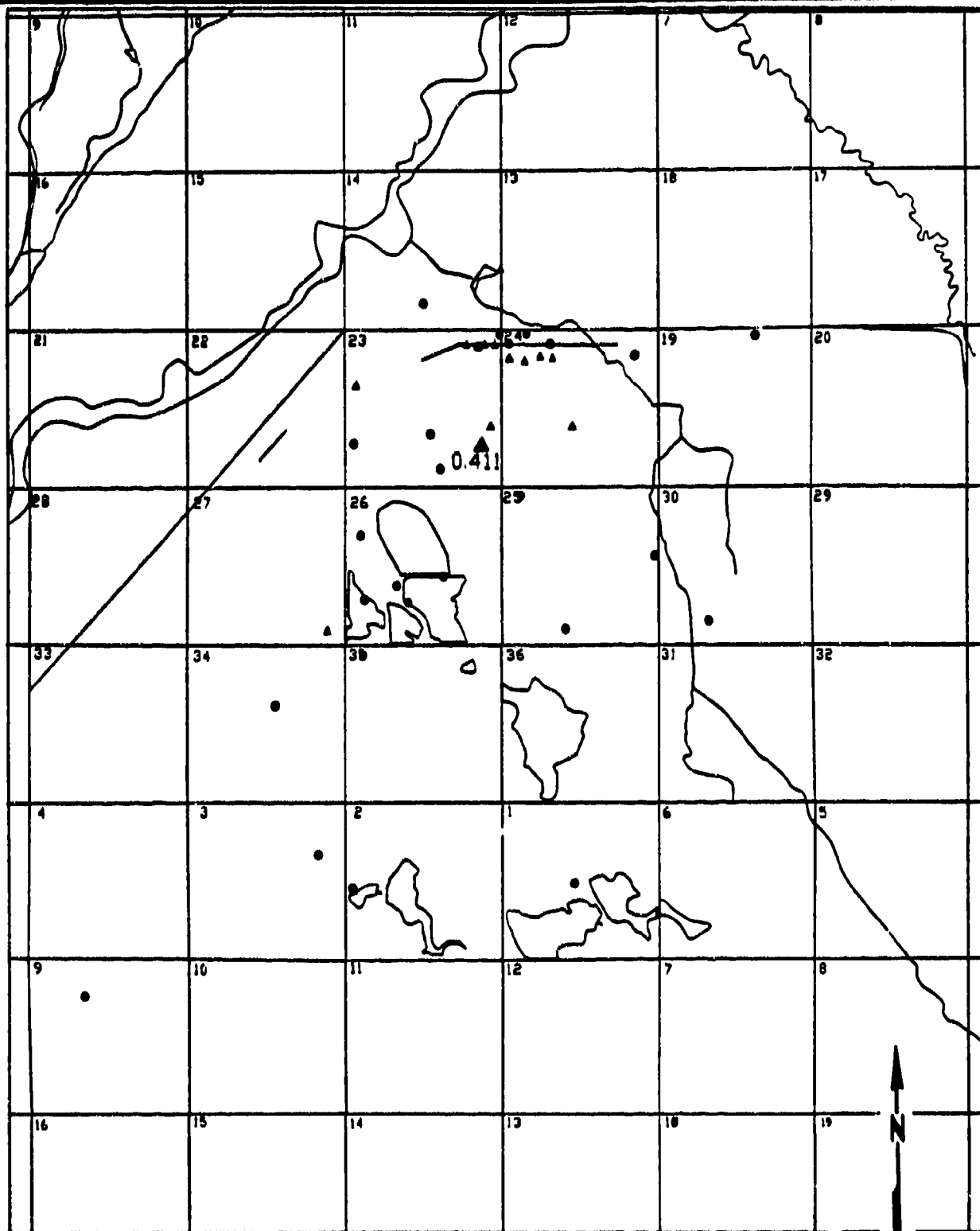
**ENDRI DETECTIONS DENVER ZONE 3 3RD
QUARTER, FY 1987**

SOURCE: Hunter/ESB, 1988

Prepared for:

**U.S. Army Program Manager's Office
For Rocky Mountain Arsenal**

Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection

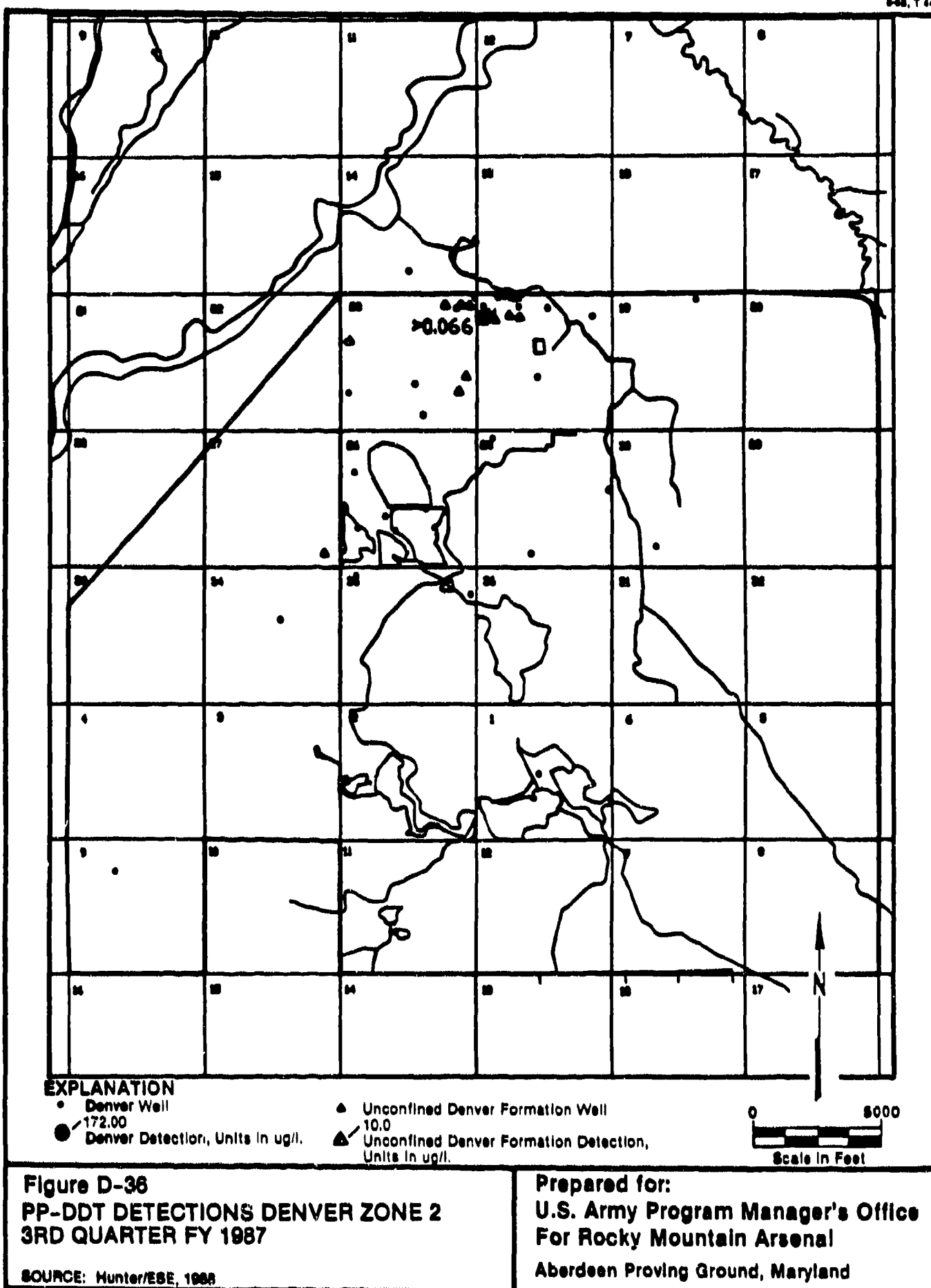
0 8000
Scale in Feet

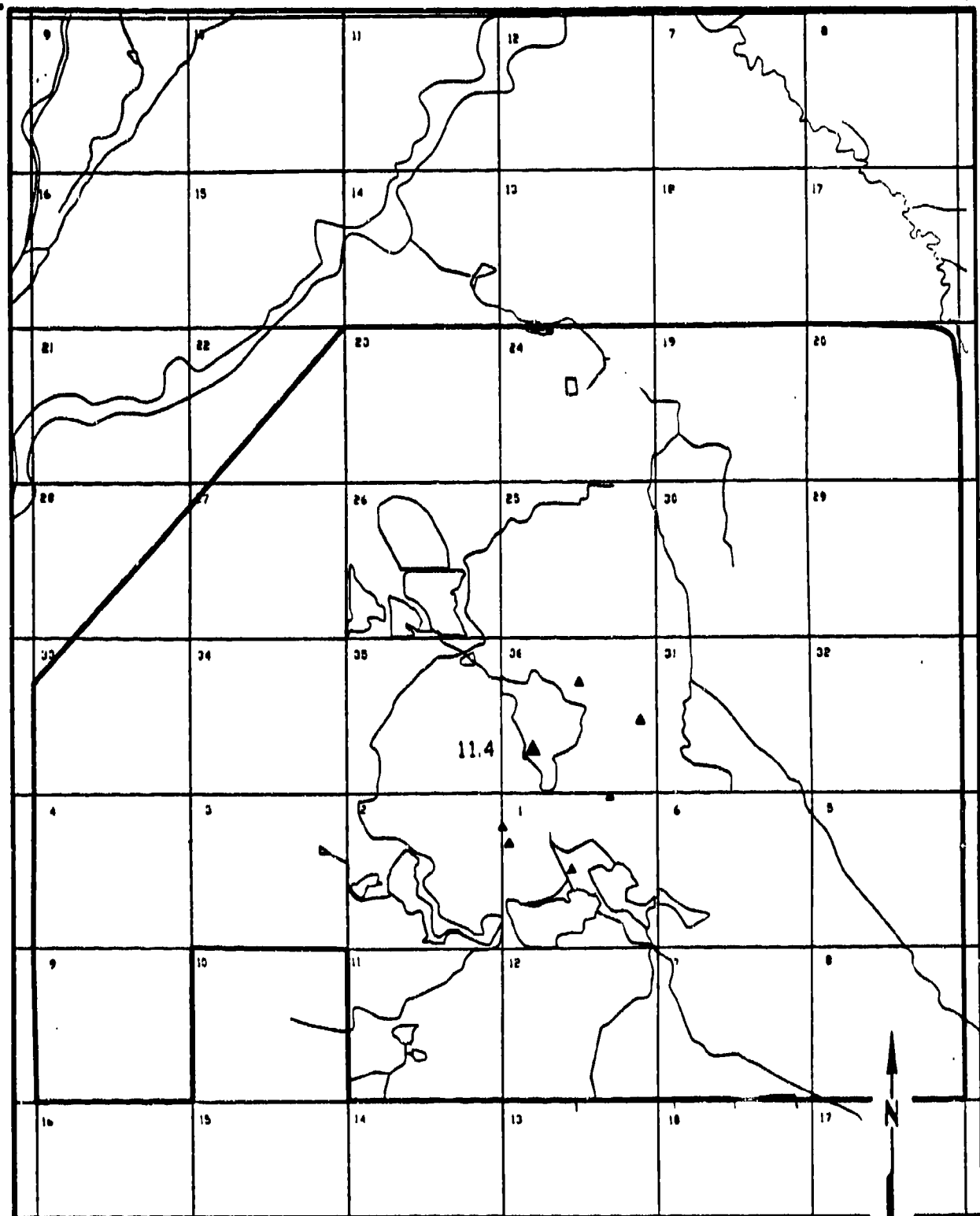
Figure D-35

ISODRIN DETECTIONS DENVER ZONE 2,
3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland





EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

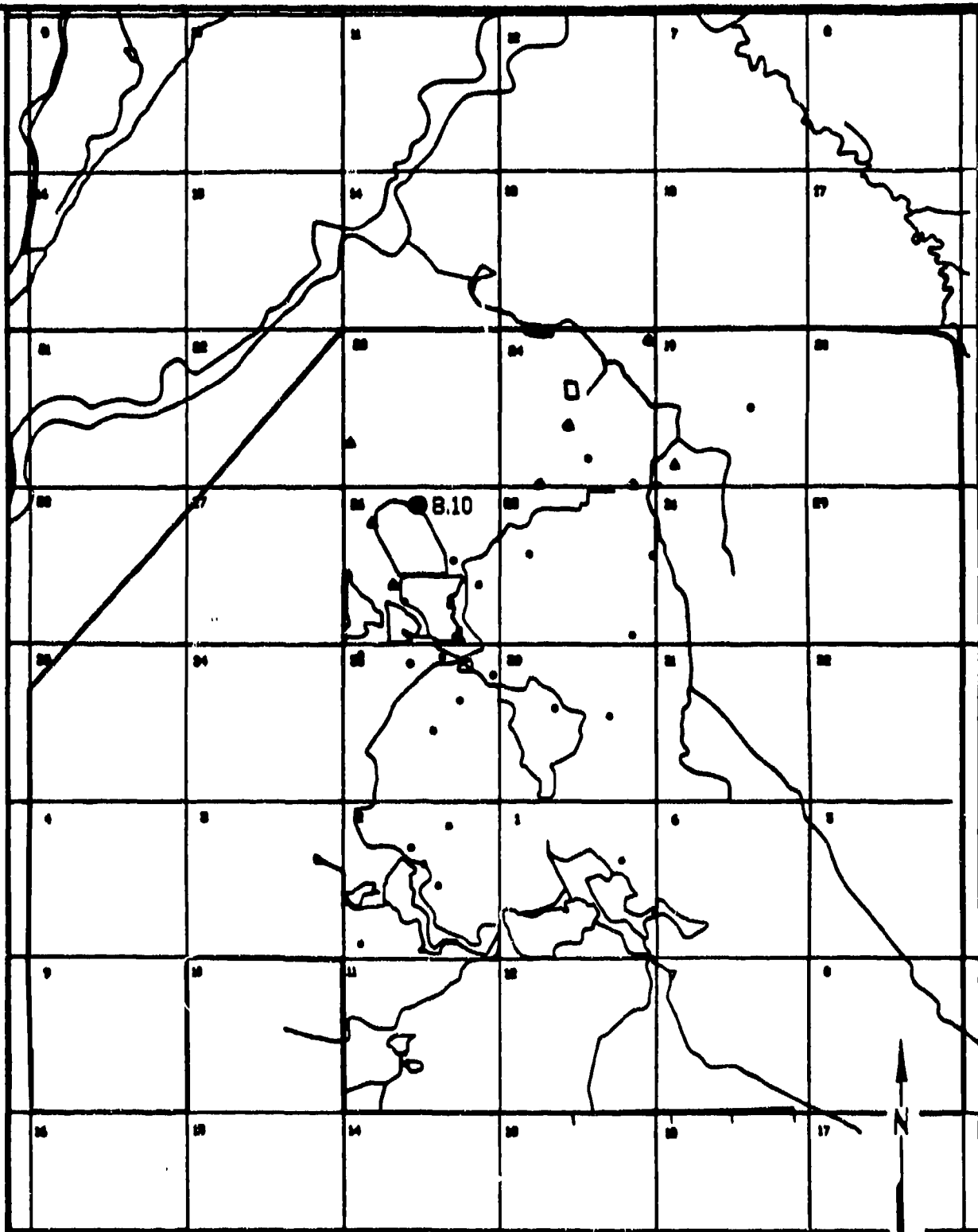
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.



Figure D-37
DMDS DETECTIONS DENVER ZONE VC/VCE
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
Denver Detection, Units in ug/l.

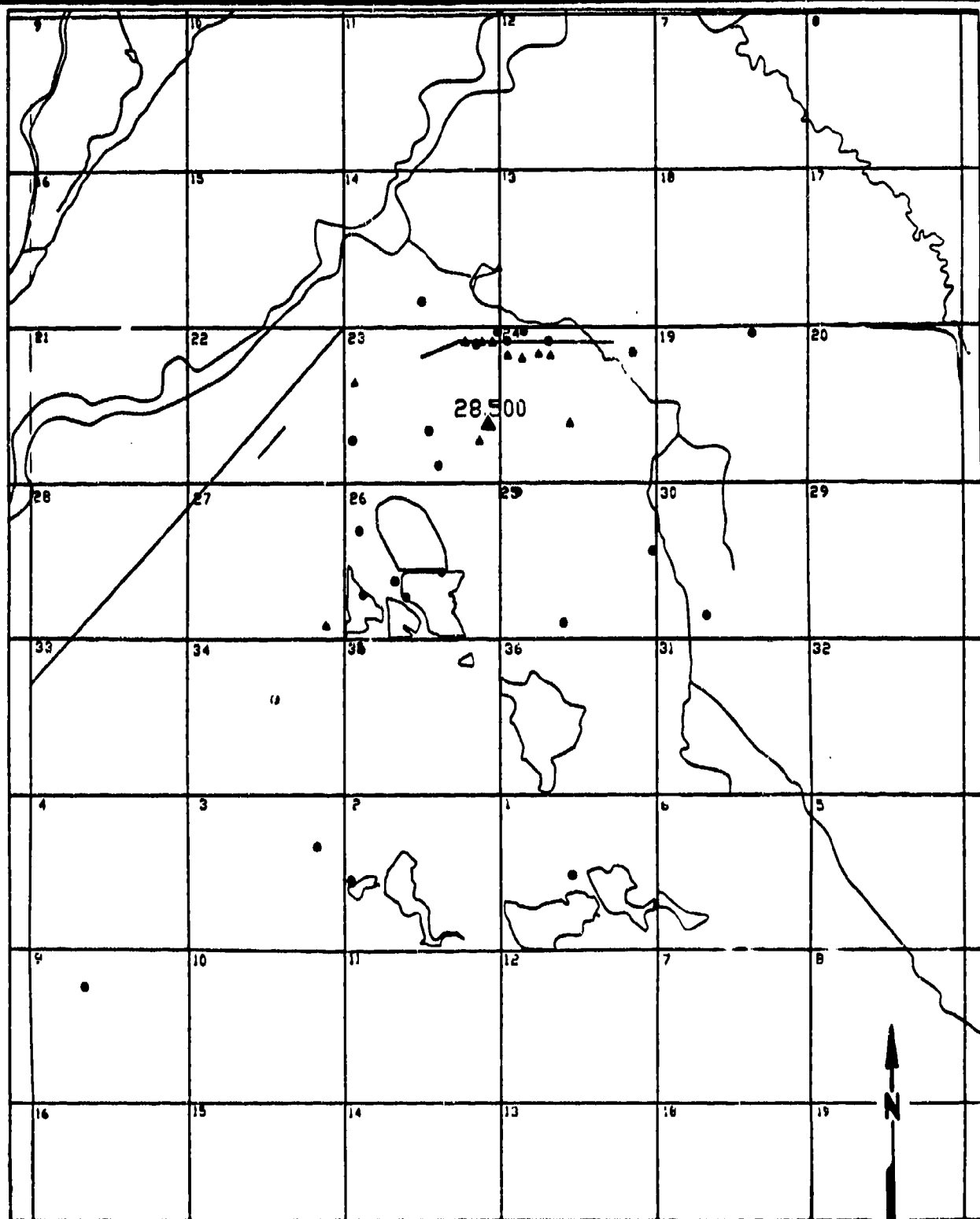
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
Unconfined Denver Formation Detection,
Units in ug/l.

0 5000
Scale in Feet

Figure D-38
DMDS DETECTIONS DENVER ZONE 1
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- Denver Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well
- ▲ Unconfined Denver Formation Detection Units in ug/l

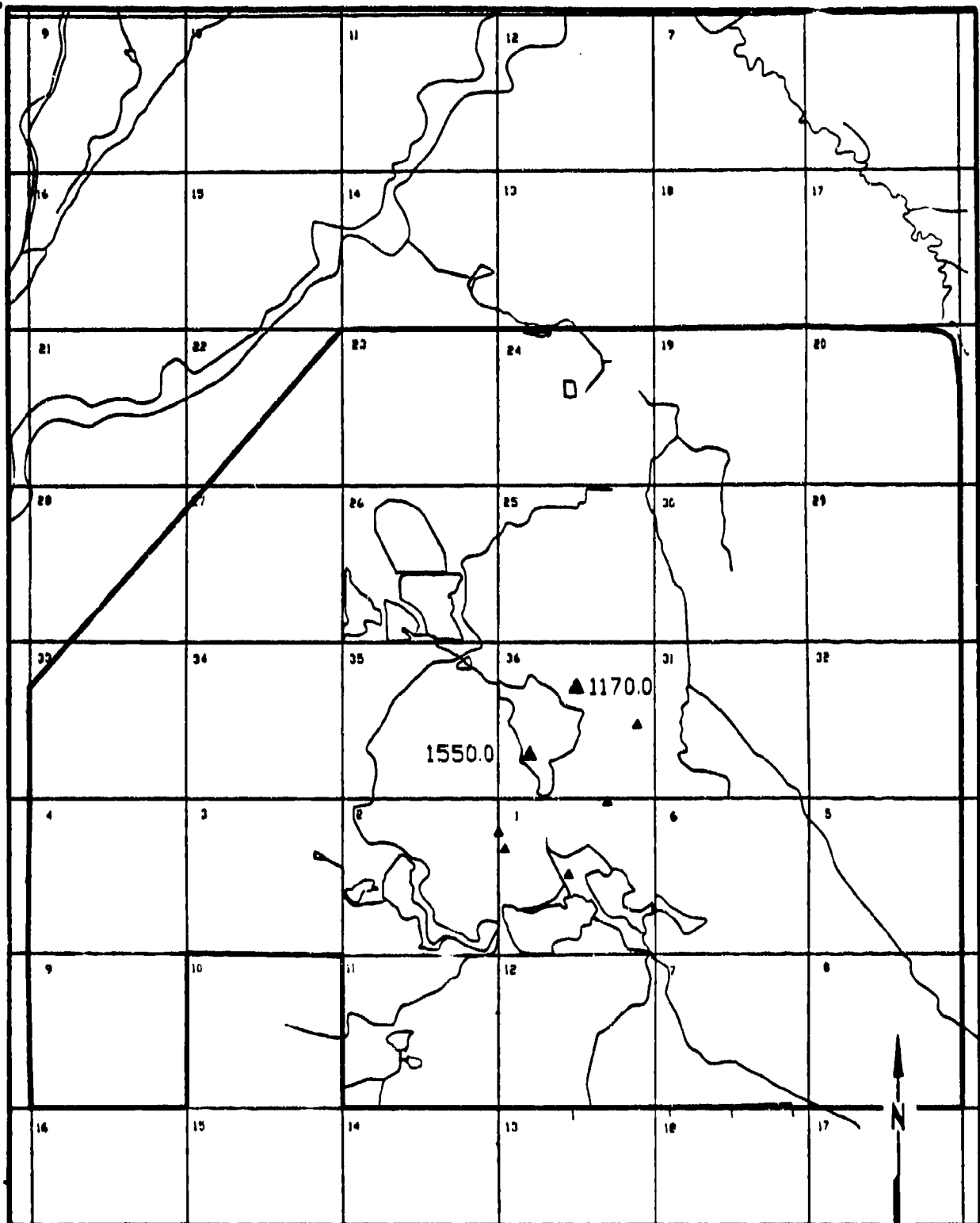
0 6000
Scale in Feet

Figure D-39

**DMDS DETECTIONS DENVER ZONE 2,
3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

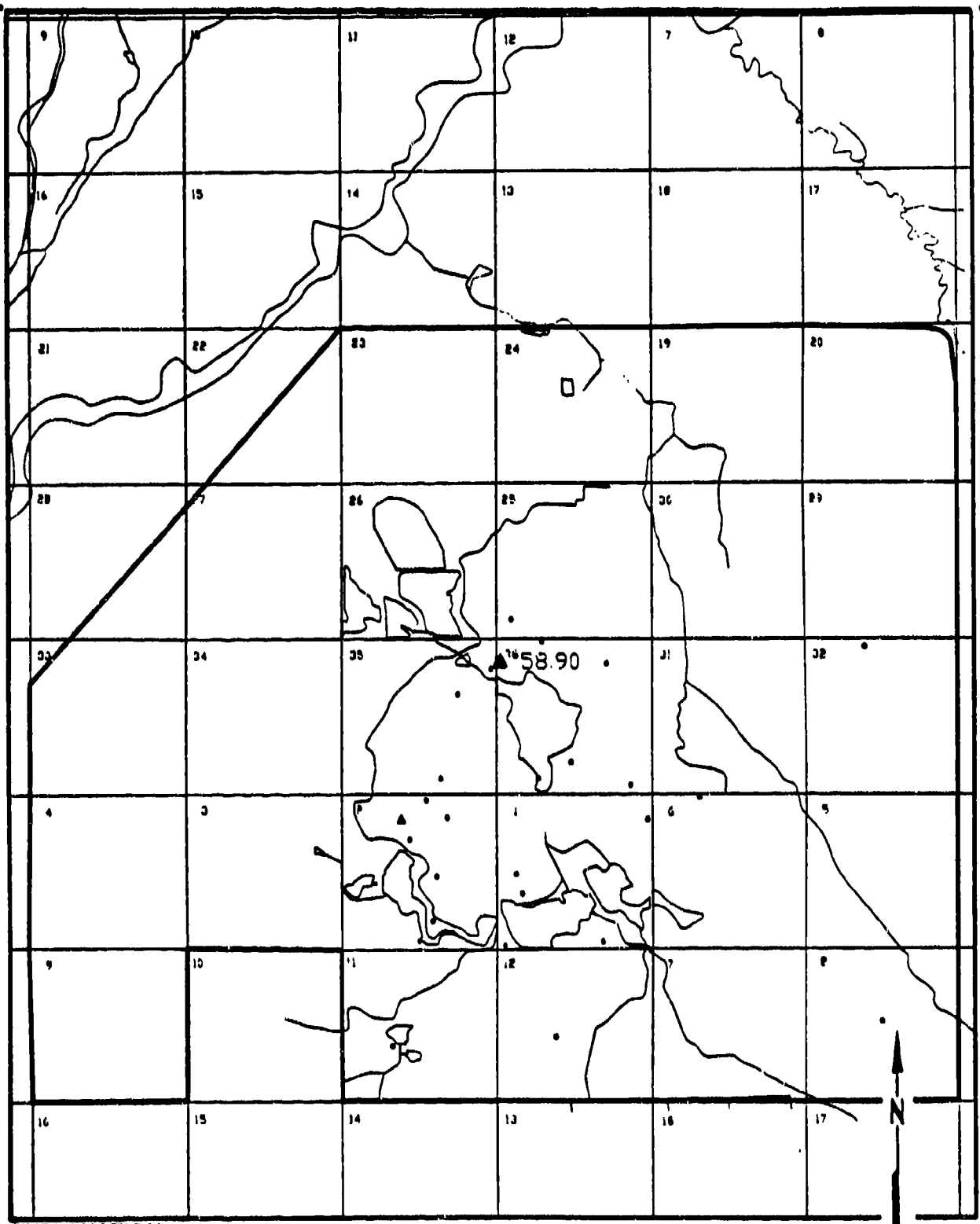
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-40
OXATHIANE DETECTIONS DENVER ZONE
VCMCE 3RD QUARTER FY 1987

SOURCE: Hunter/ESB, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.



Figure D-41

**OXATHIANE DETECTIONS DENVER ZONE A
3RD QUARTER FY 1987**

SOURCE: Hunter/ESE, 1988

Prepared for:

**U.S. Army Program Manager's Office
For Rocky Mountain Arsenal**

Aberdeen Proving Ground, Maryland

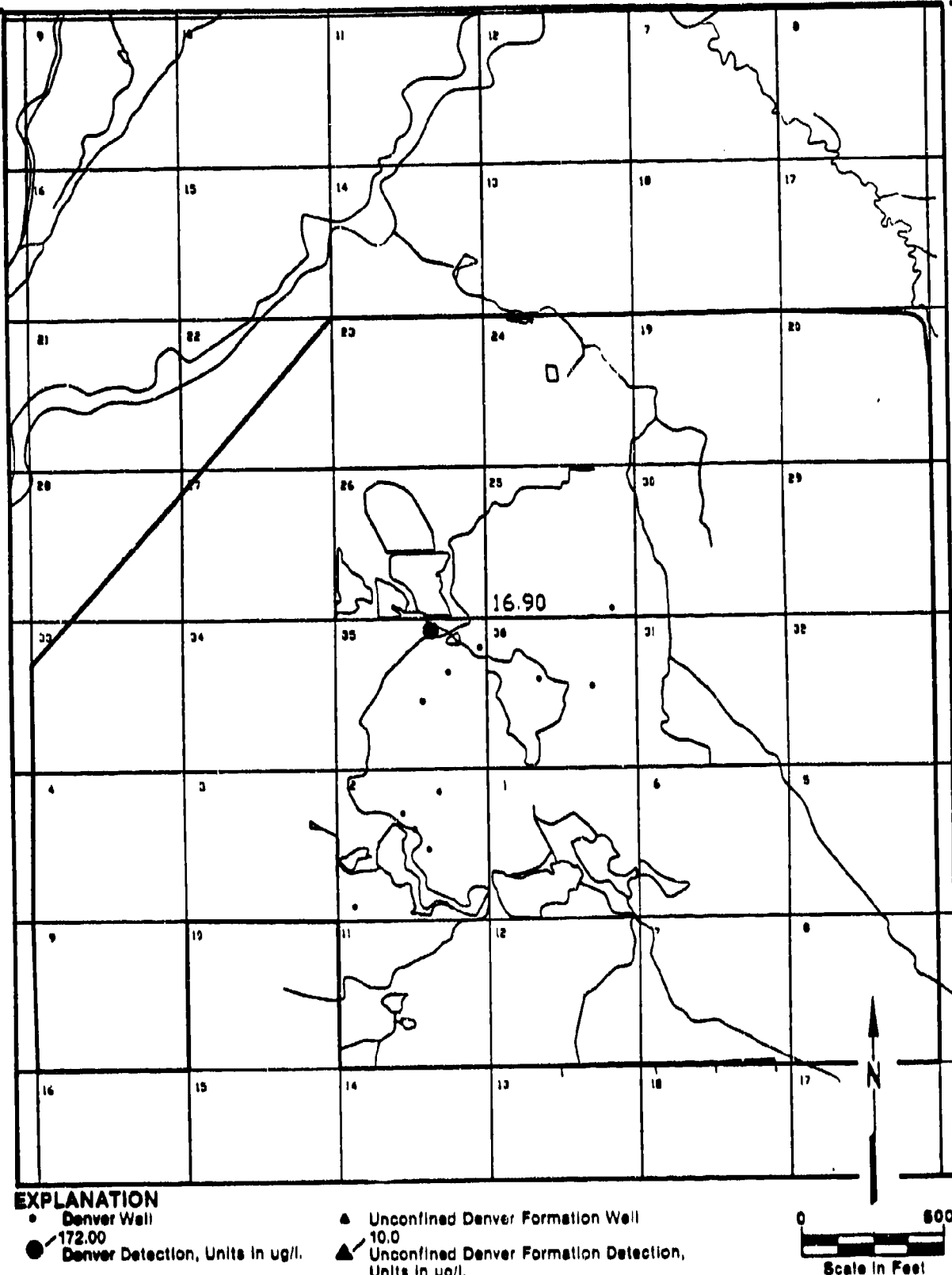
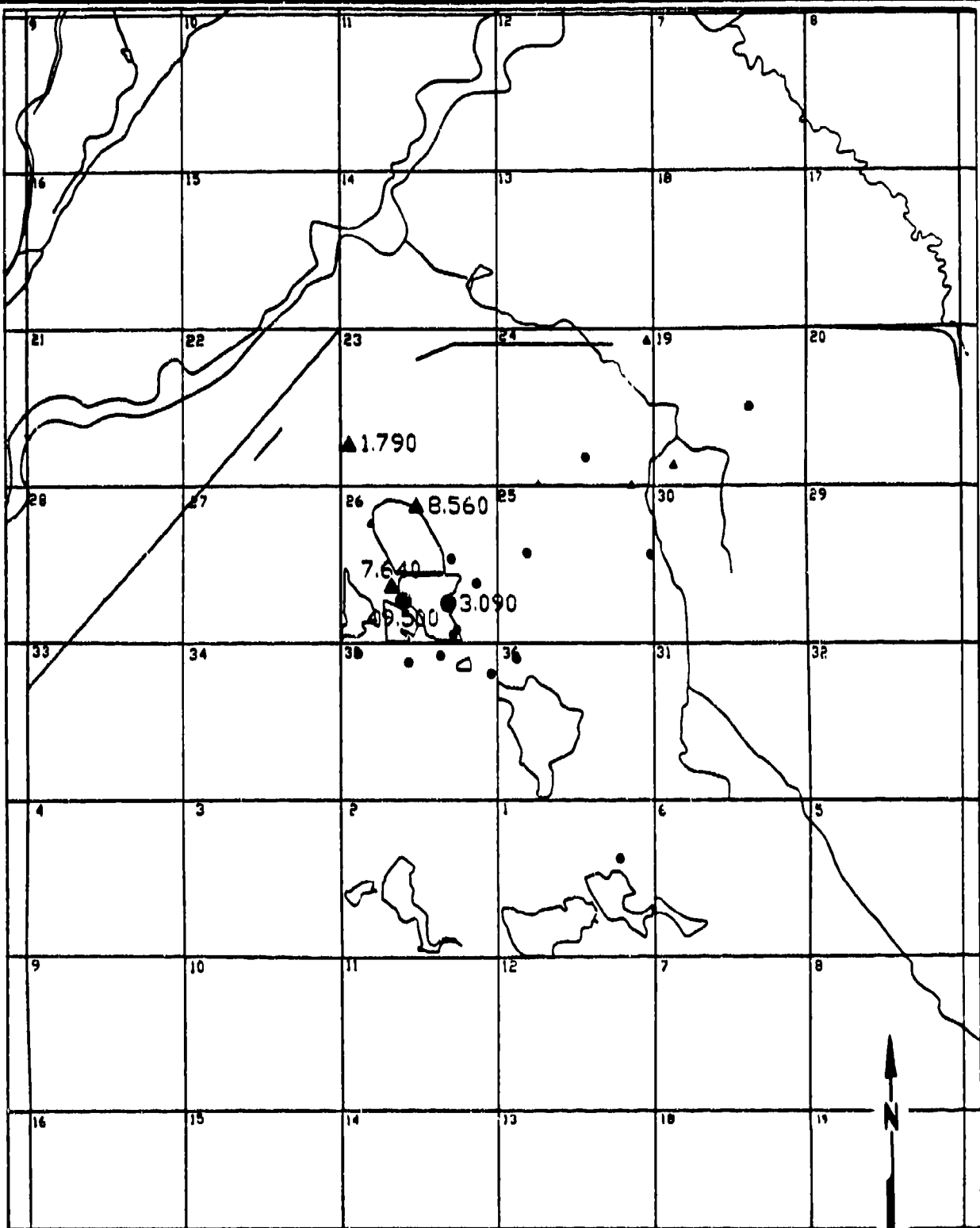


Figure D-42
OXATHIANE DETECTIONS DENVER ZONE 1U
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
 U.S. Army Program Manager's Office
 For Rocky Mountain Arsenal
 Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- ▲ Units in ug/l

0 5000
Scale in Feet

Figure D-43

OXATHIANE DETECTIONS DENVER ZONE
1, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

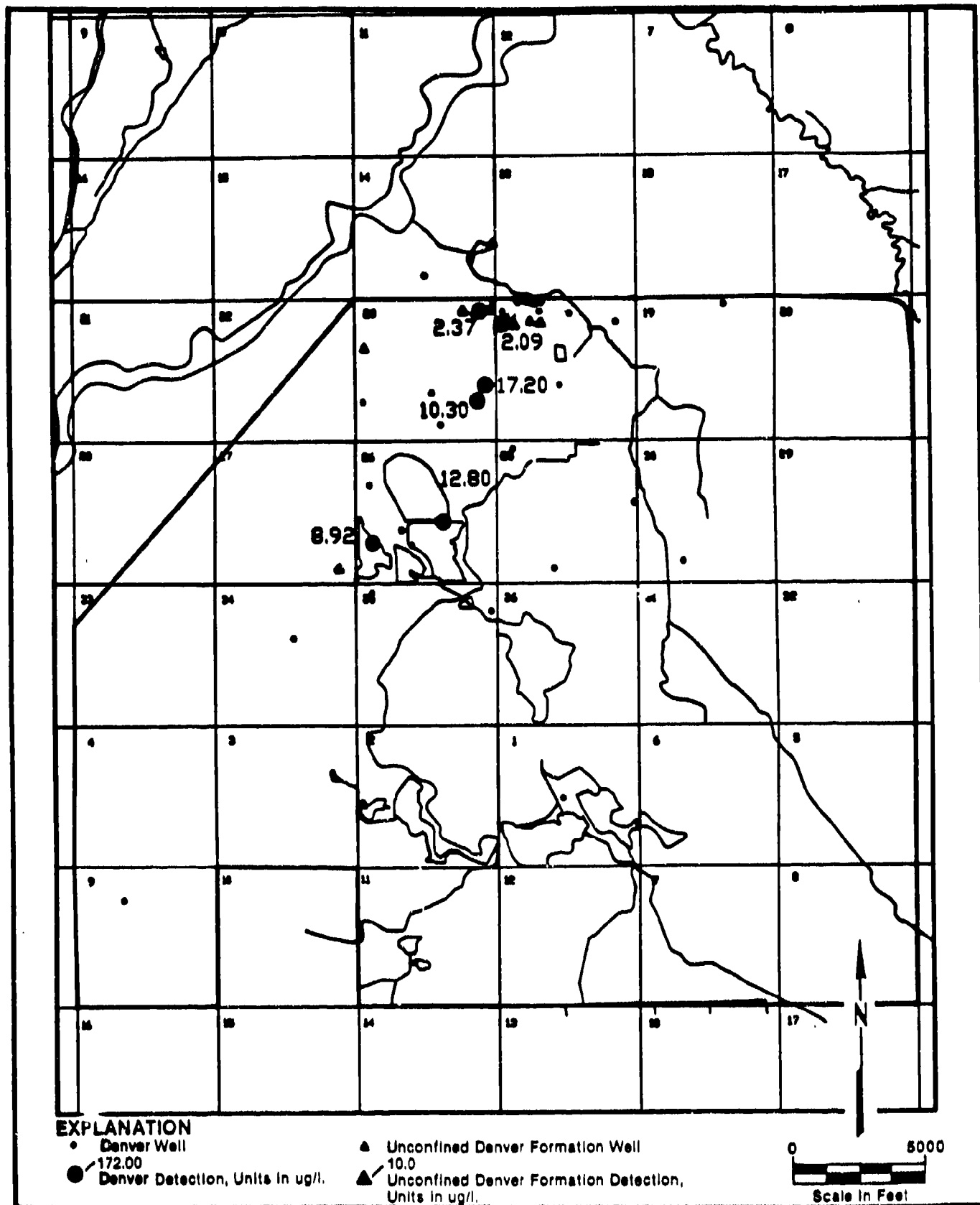
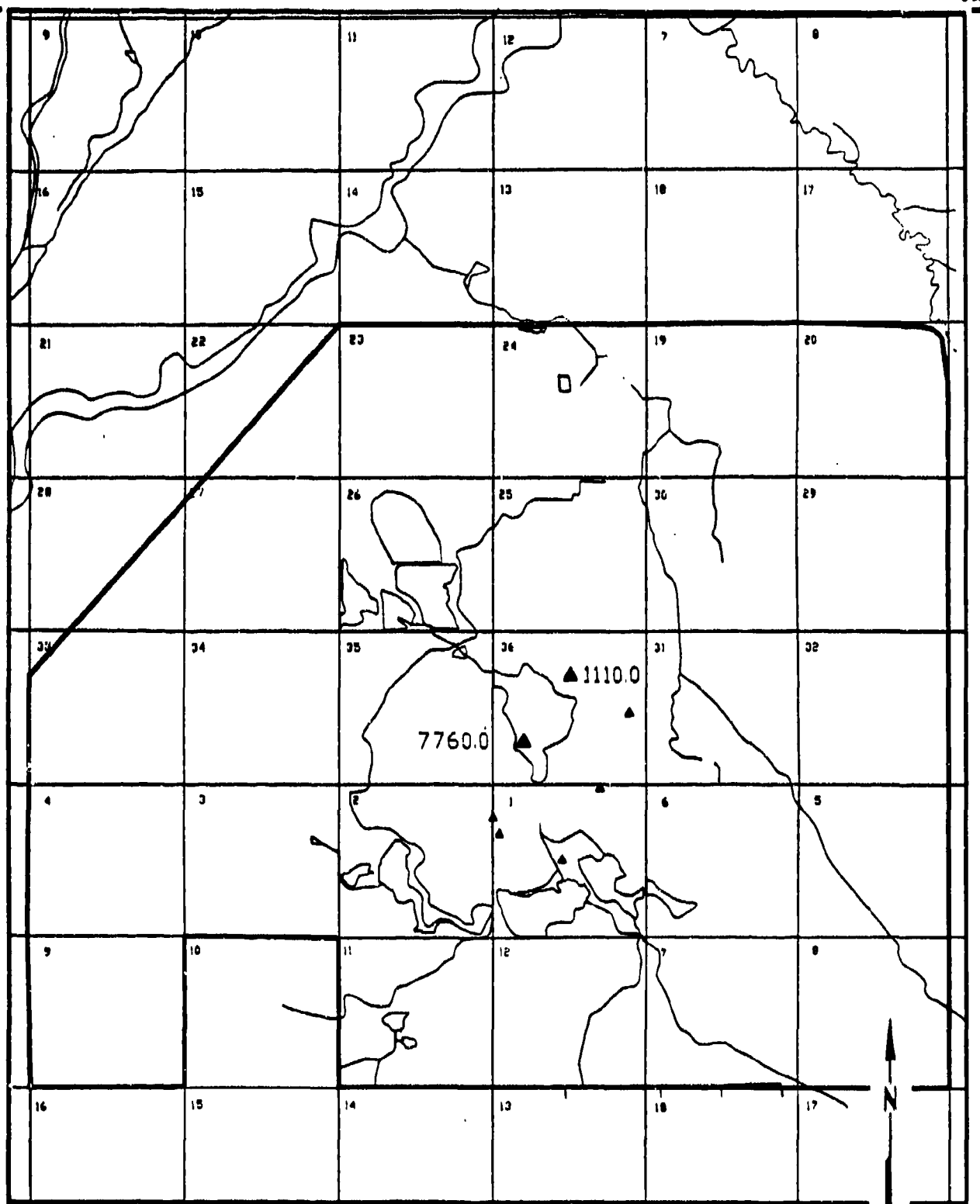


Figure D-44
OXATHIANE DETECTIONS DENVER ZONE 2
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

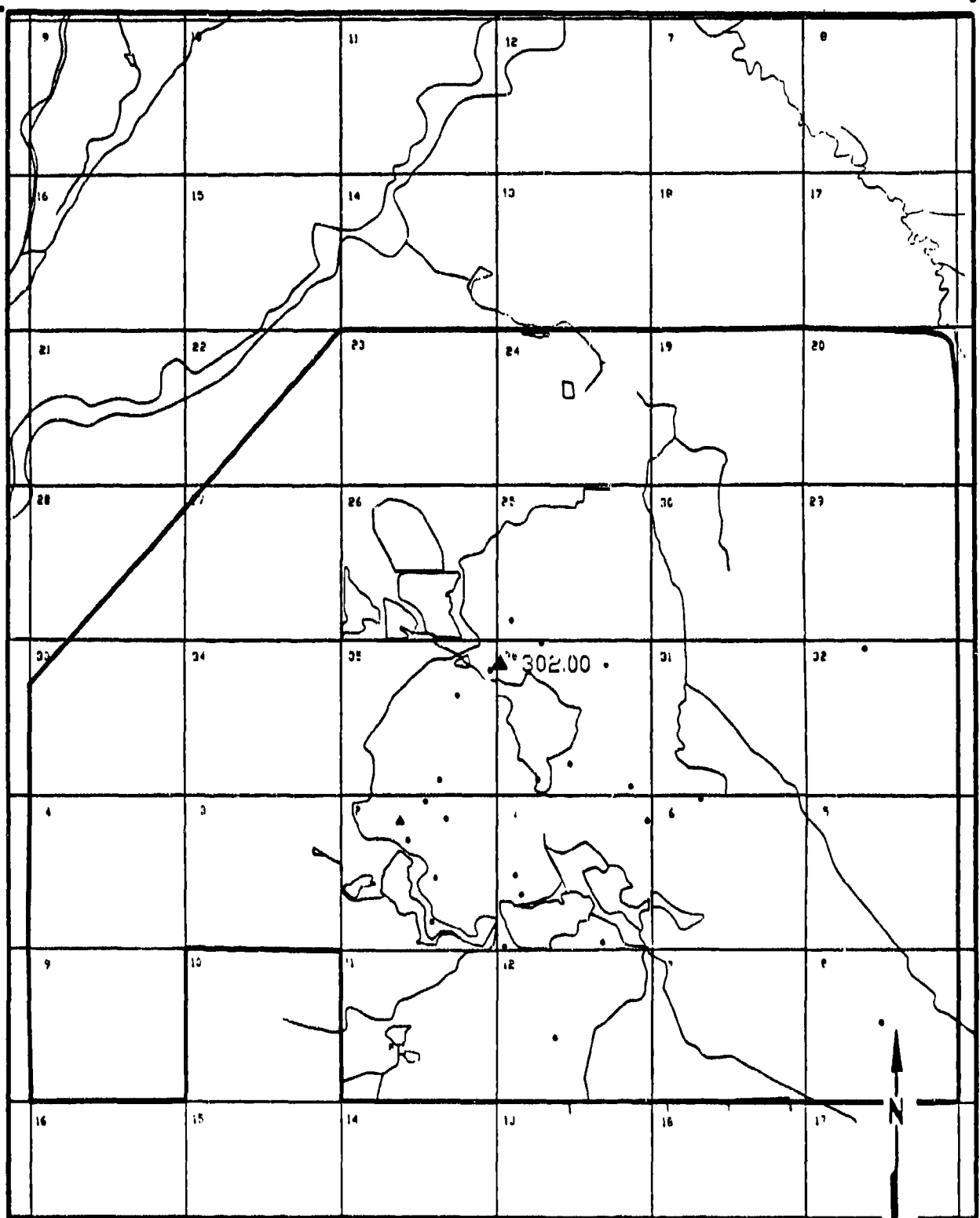
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-45
DITHIANE DETECTIONS DENVER ZONE
VC/VCE 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1986

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

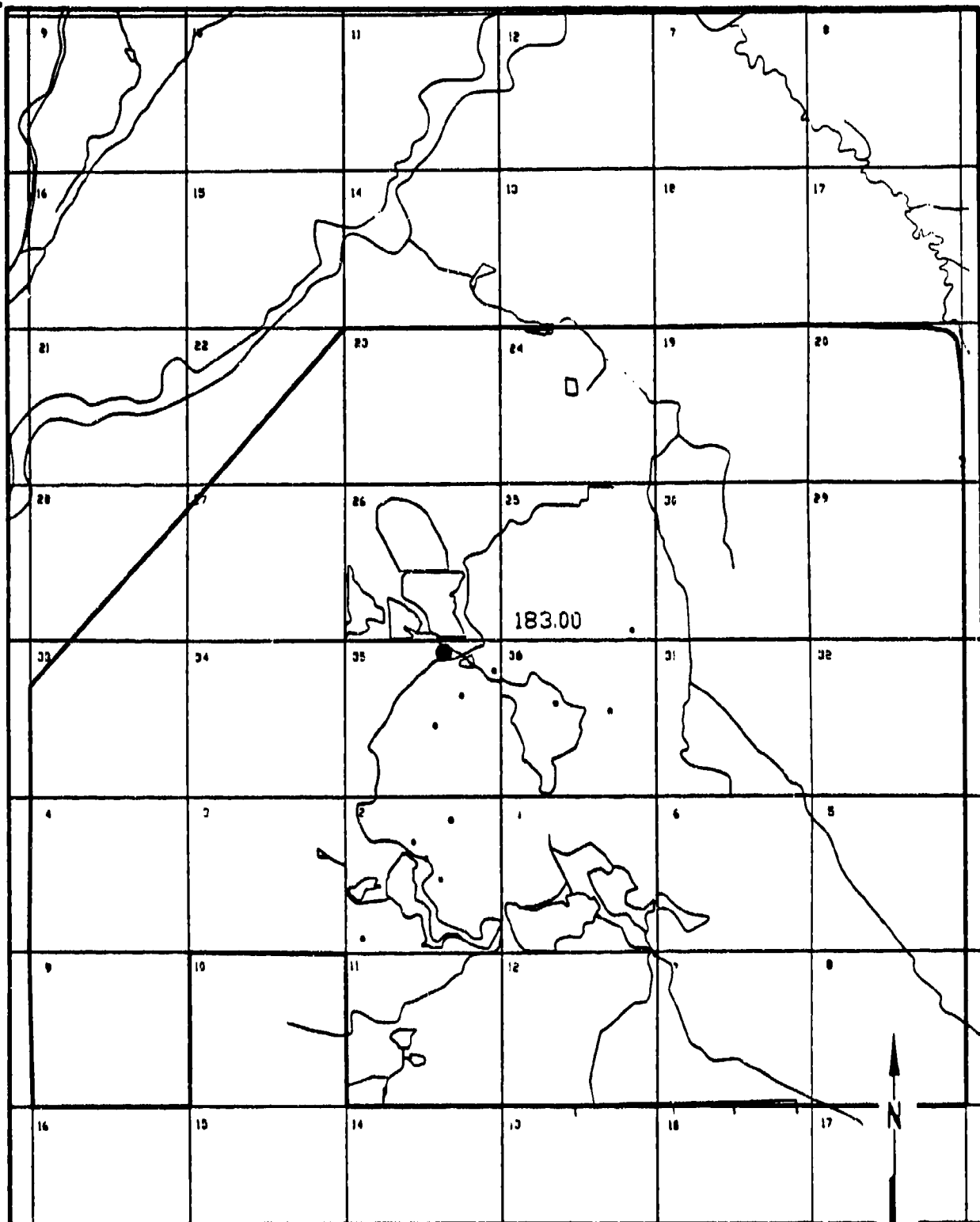
Figure D-46

**DITHIANE DETECTIONS DENVER ZONE A
3RD QUARTER FY 1987**

SOURCE: Hunter/ESE, 1988

Prepared for:

**U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

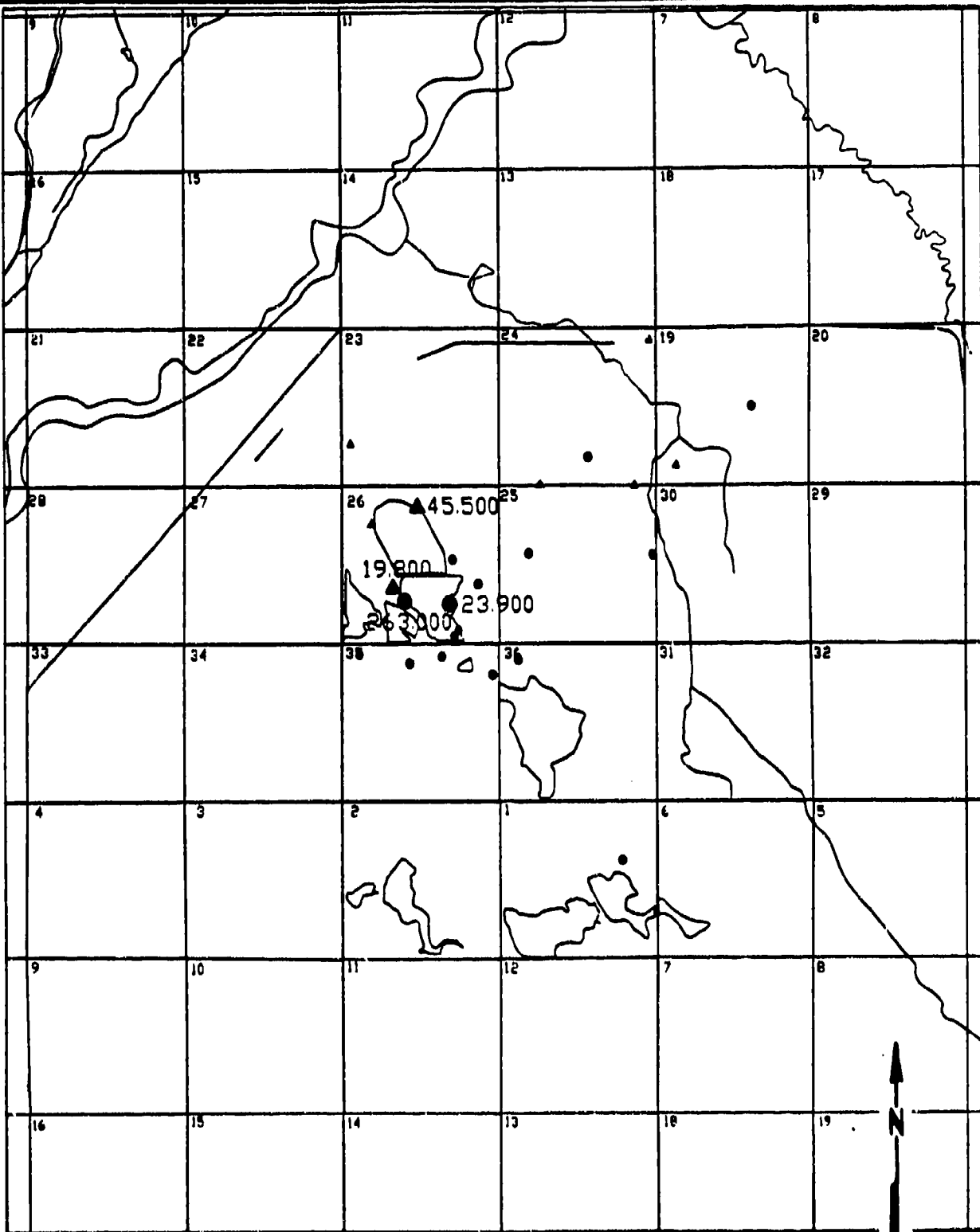
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-47
DITHIANE DETECTIONS DENVER ZONE 1U
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- 10.0
- ▲ Unconfined Denver Formation Detection
- Units in ug/l

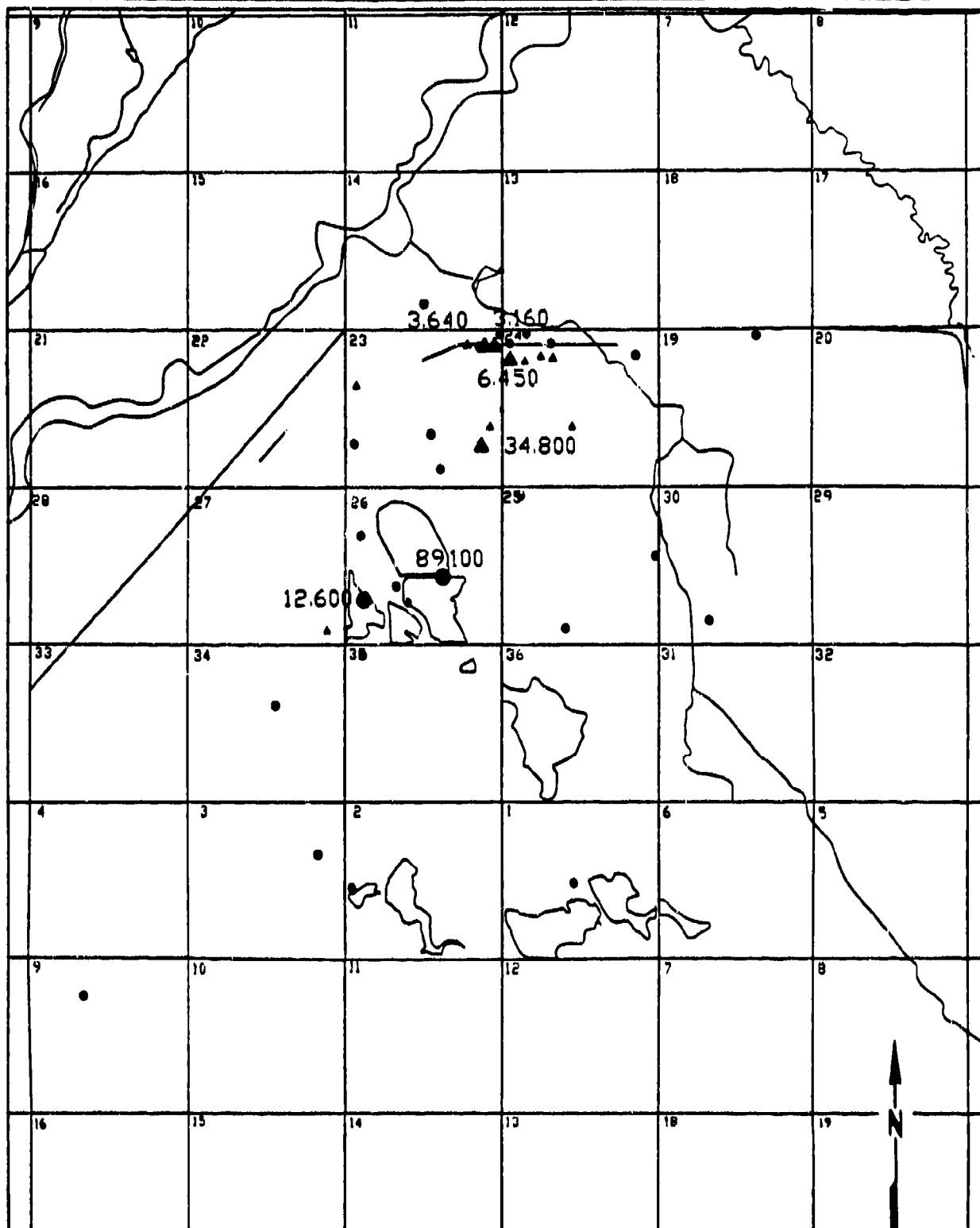
0 5000
Scale in Feet

Figure D-4B

**DITHIANE DETECTIONS DENVER ZONE 1,
3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection Units in ug/l

0 8000
Scale in Feet

Figure D-49

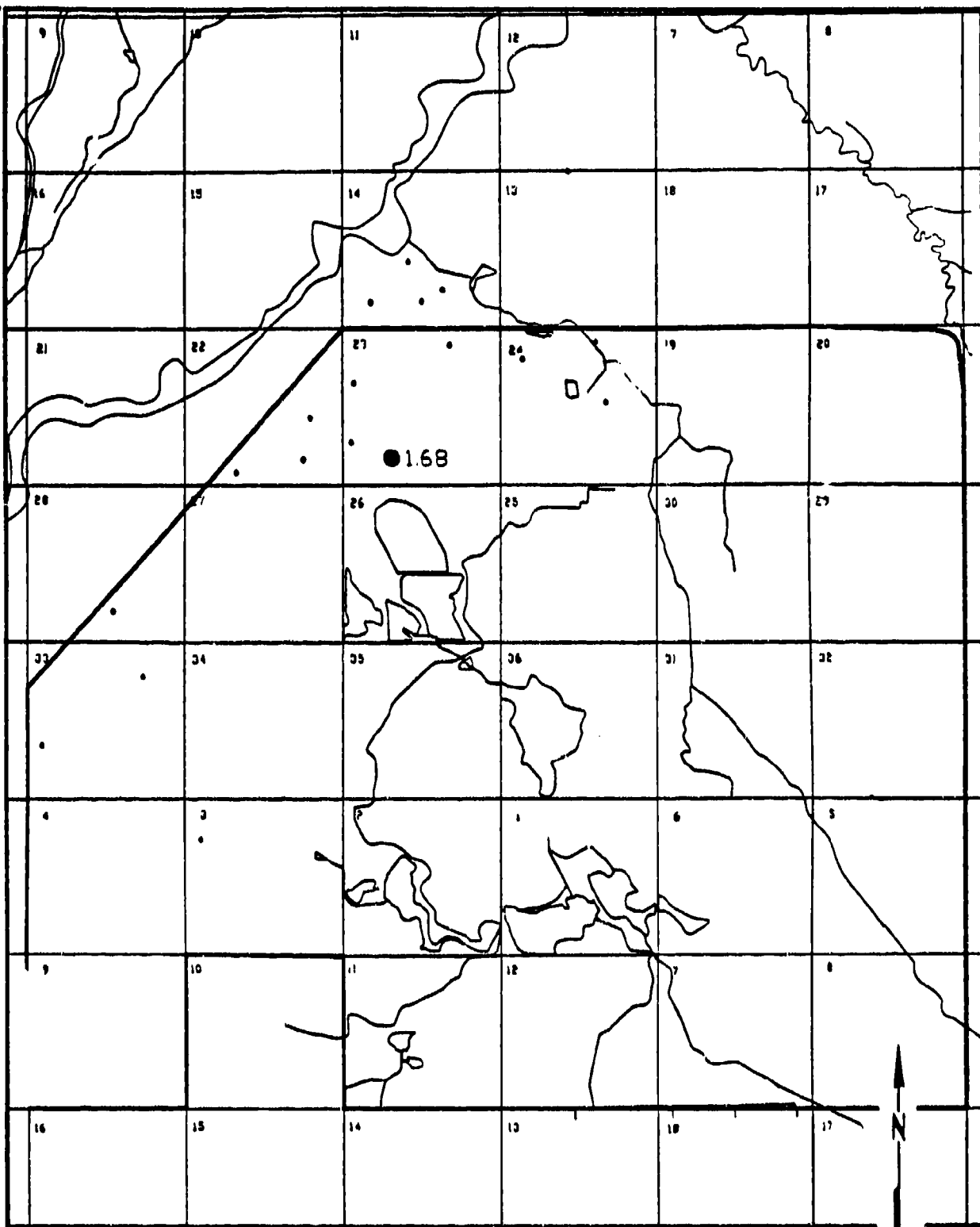
**DITHIANE DETECTIONS DENVER ZONE 2,
3RD QUARTER, FY 1987**

SOURCE: Hunter/ESB, 1988

Prepared for:

**U.S. Army Program Manager's Office
For Rocky Mountain Arsenal**

Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

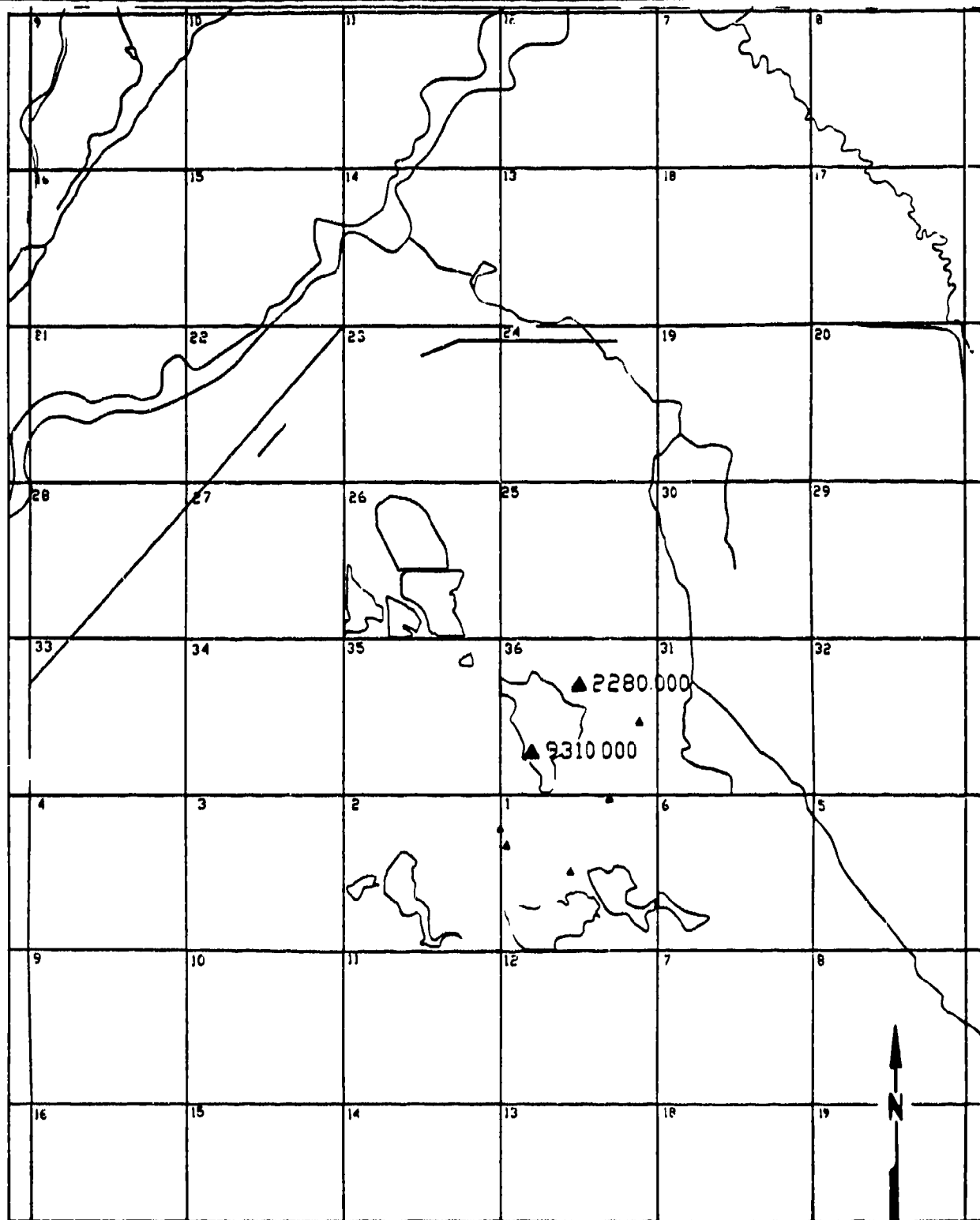
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 8000
Scale in Feet

Figure D-50
DITHIANE DETECTIONS DENVER ZONE 4
3RD QUARTER FY 1987

SOURCE: Hunter/EBE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection Units in ug/l

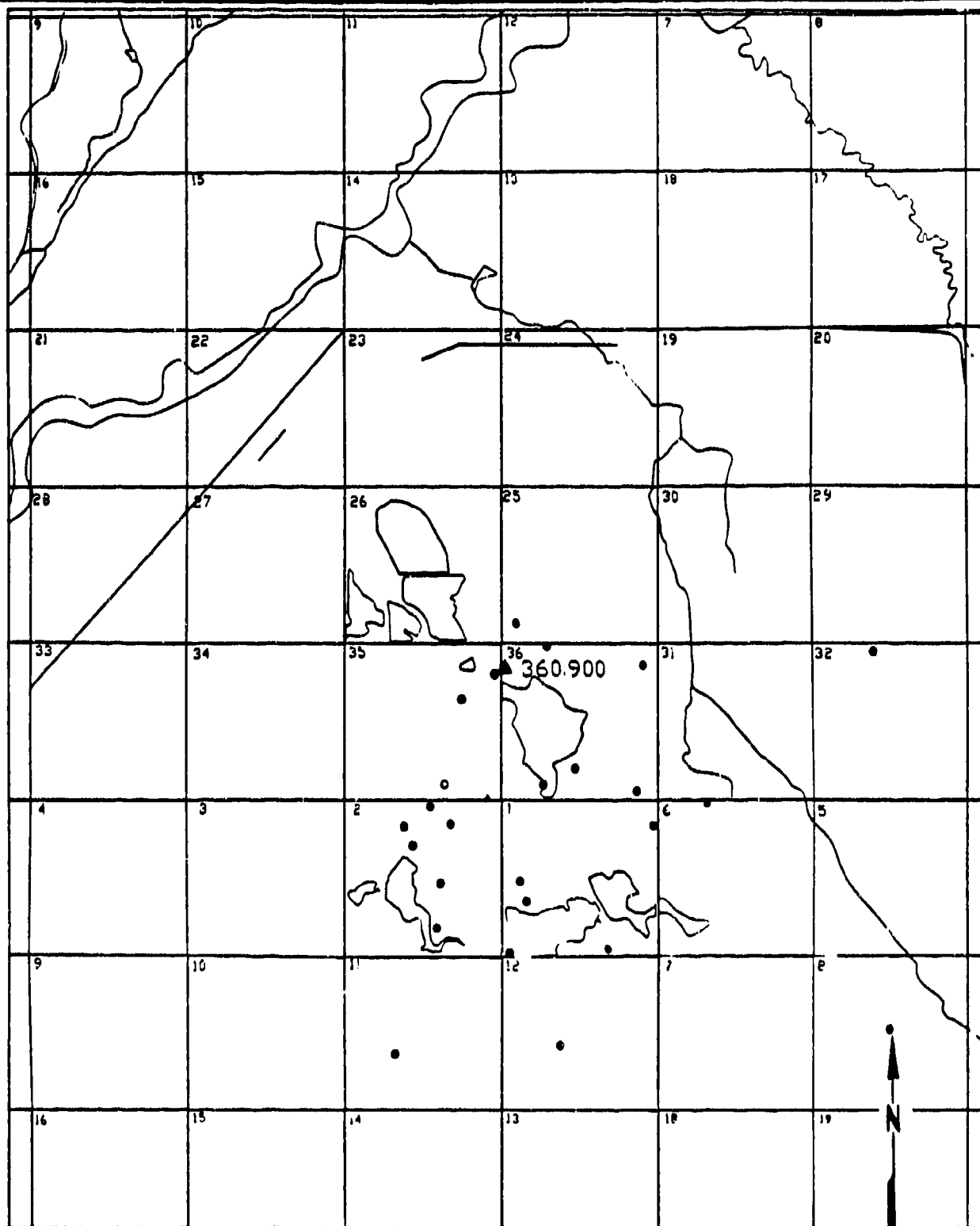
0 8000
Scale in Feet

Figure D-51

**OXATHIANE/DITHIANE DETECTIONS DENVER
ZONE VC/VCE, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESB, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection Units in ug/l

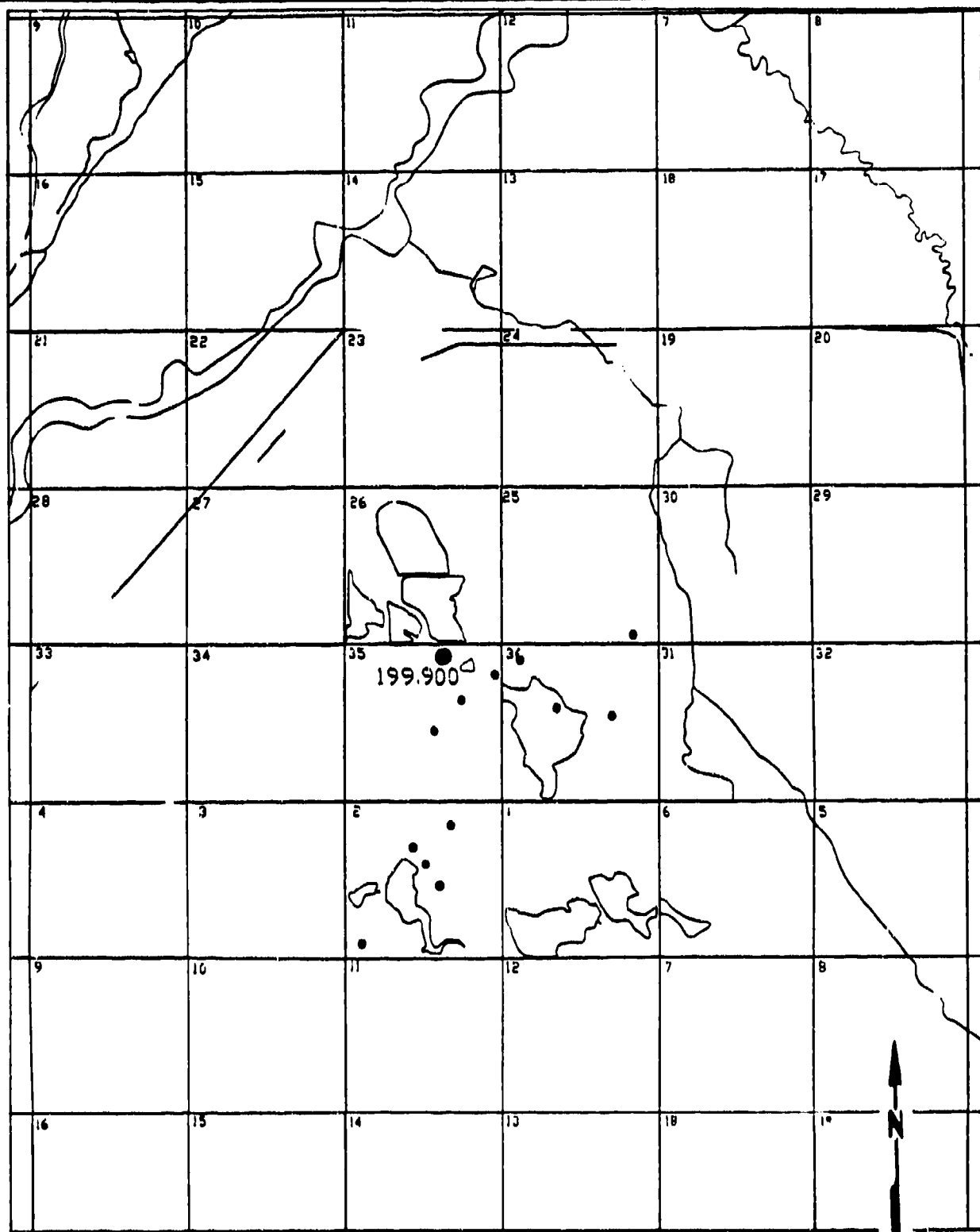
0 8000
Scale in Feet

Figure D-52

**OXATHIANE/DITHIANE DETECTIONS DENVER
ZONE A, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection Units in ug/l

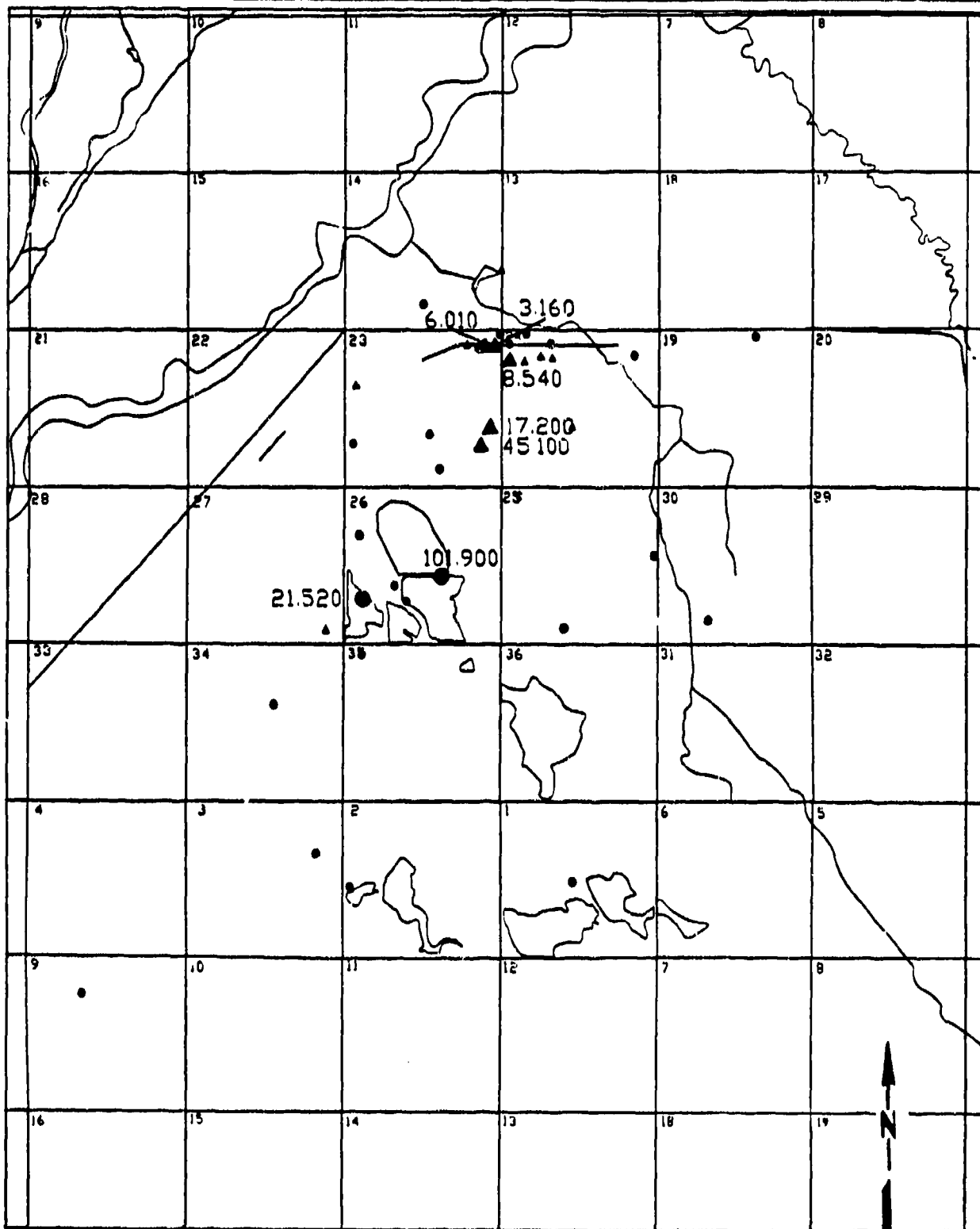
0 8000
Scale in Feet

Figure D-53

OXATHIANE/DITHIANE DETECTIONS DENVER
ZONE 1U, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well 10.0
- ▲ Unconfined Denver Formation Detection Units in ug/l

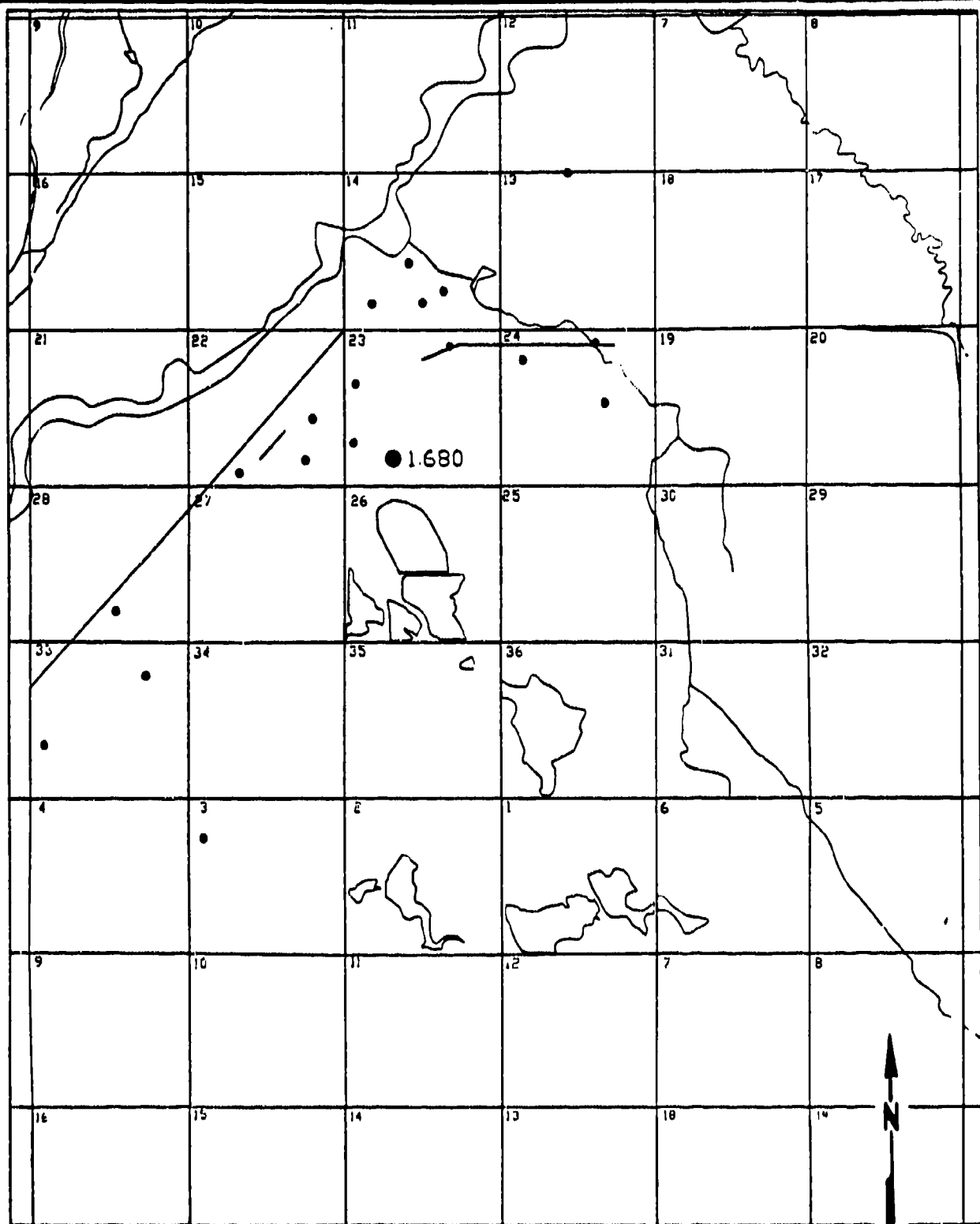
0 8000
Scale in Feet

Figure D-54

OXATHIANE/DITHIANE DETECTIONS DENVER
ZONE 2, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well 10.0
- ▲ Unconfined Denver Formation Detection Units in ug/l

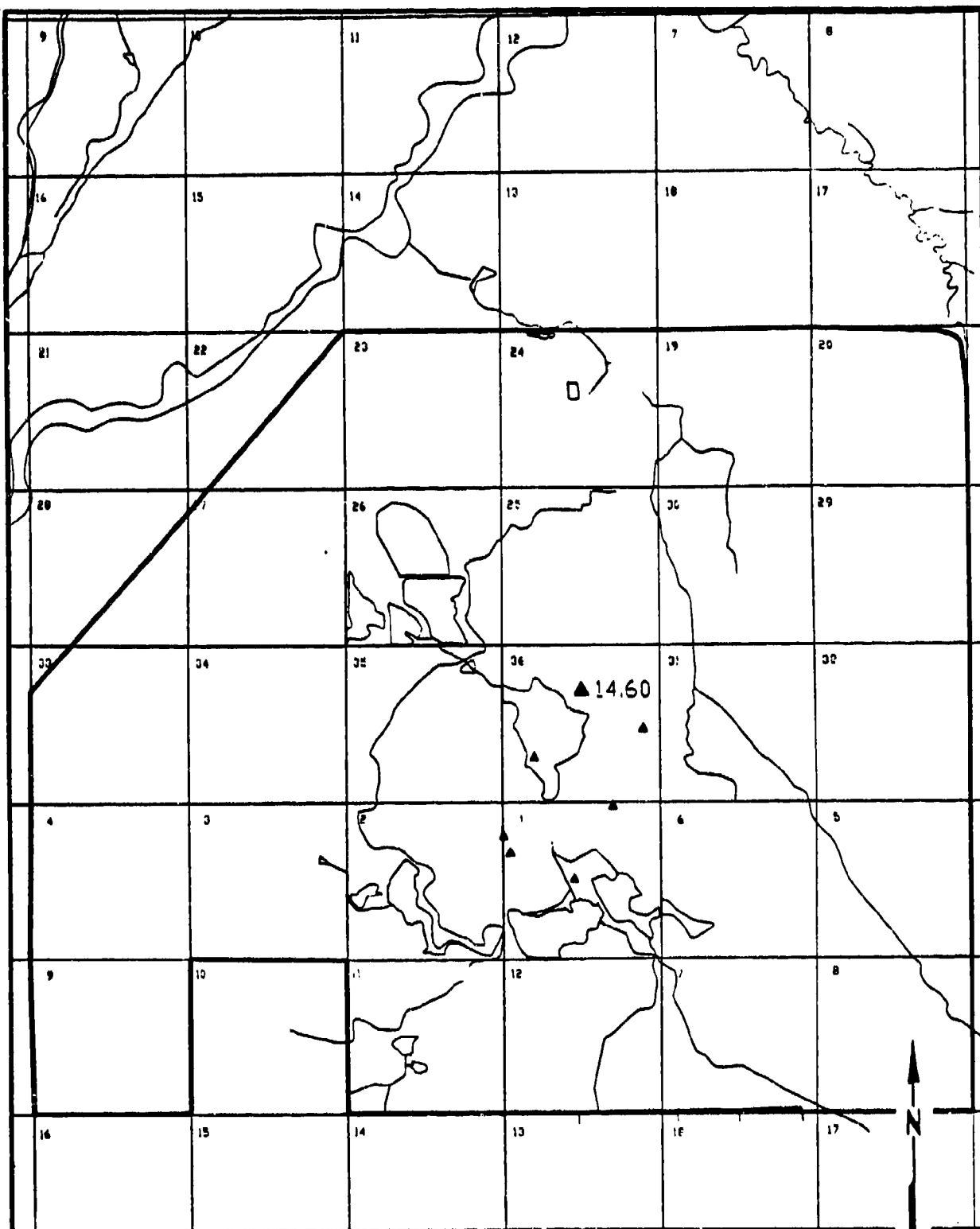
0 5000
Scale in Feet

Figure D-55

OXATHIANE/DITHIANE DETECTIONS DENVER
ZONE 4, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

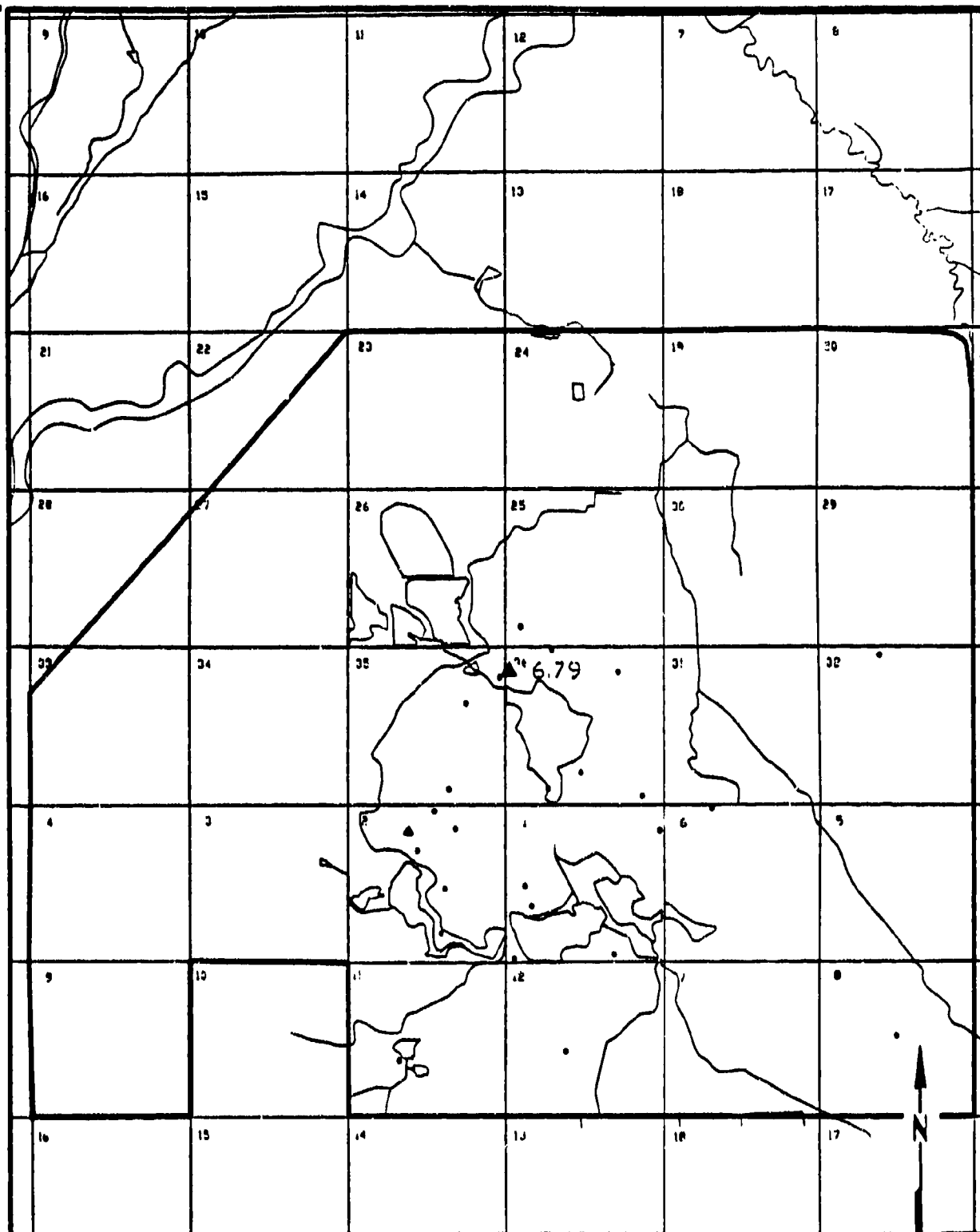
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 6000
Scale in Feet

Figure D-56
BENZOTHAZOLE DETECTIONS DENVER
ZONE VC/VCE 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

• Denver Well

● 172.00

Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

10.0

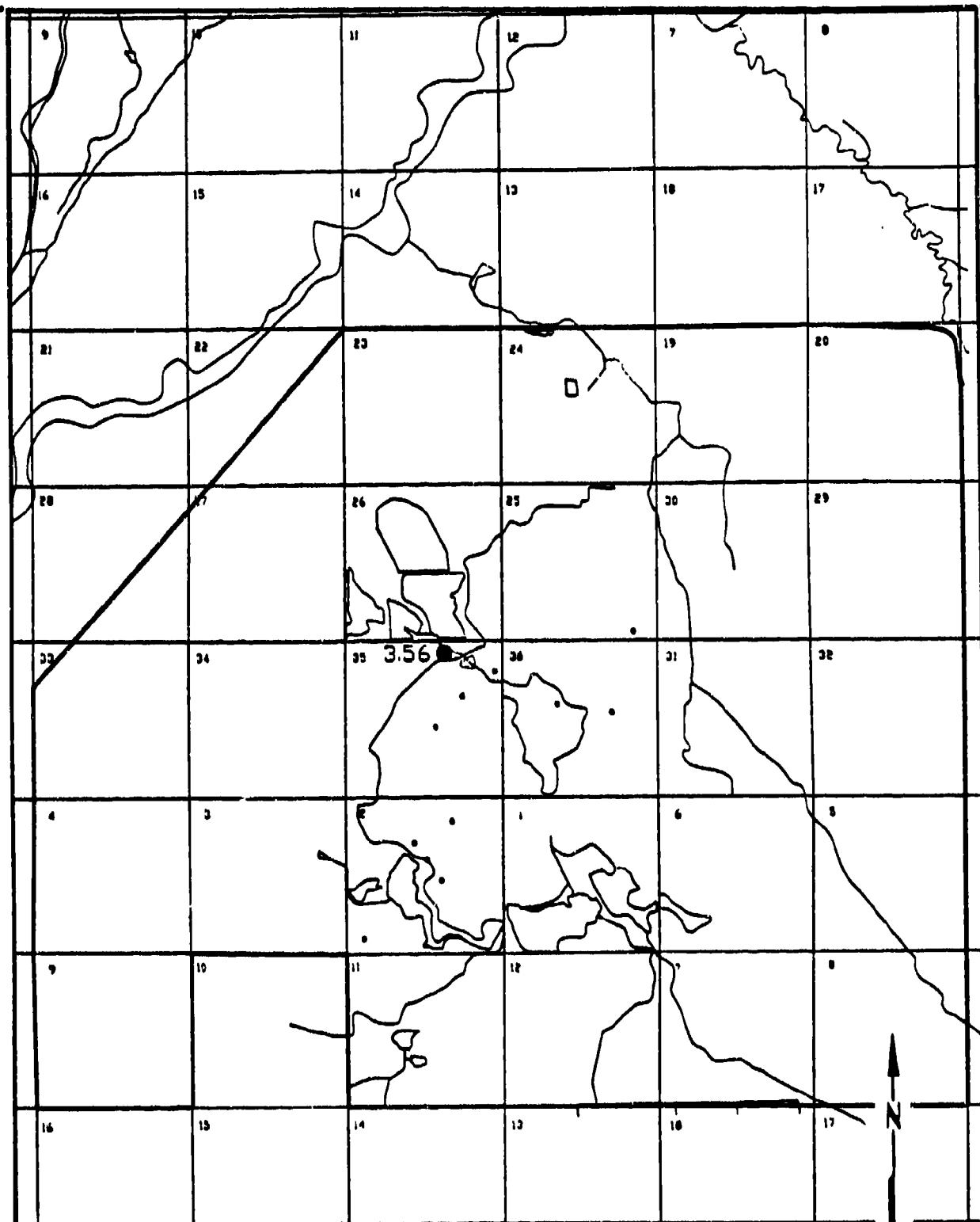
▲ Unconfined Denver Formation Detection, Units in ug/l.

0 8000
Scale in Feet

Figure D-57
BENZOTHAZOLE DETECTIONS DENVER
ZONE A 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

• Denver Well

● 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well
10.0

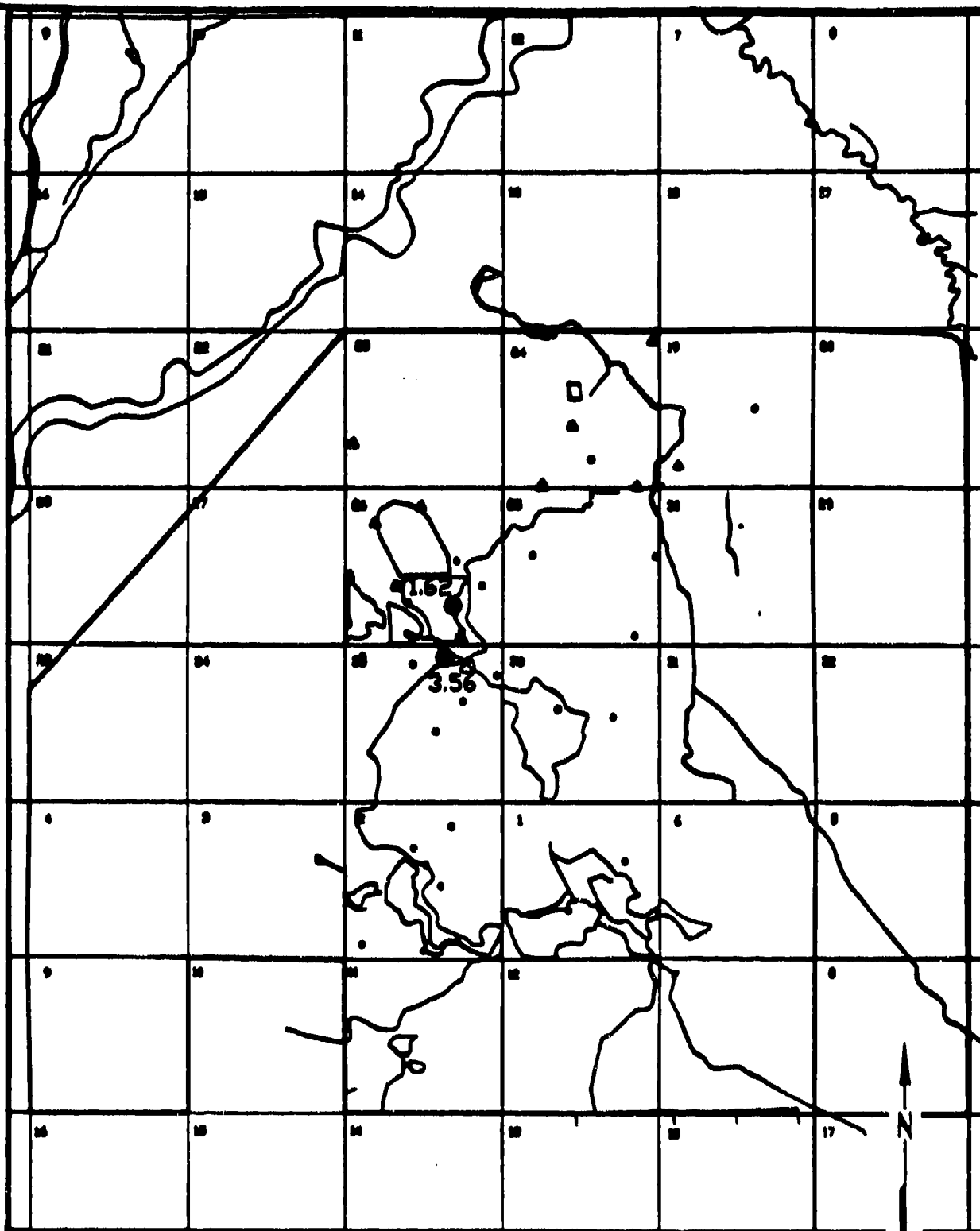
▲ Unconfined Denver Formation Detection,
Units in ug/l.

0 8000
Scale in Feet

Figure D-58
BENZOTHAZOLE DETECTIONS DENVER
ZONE 1U 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

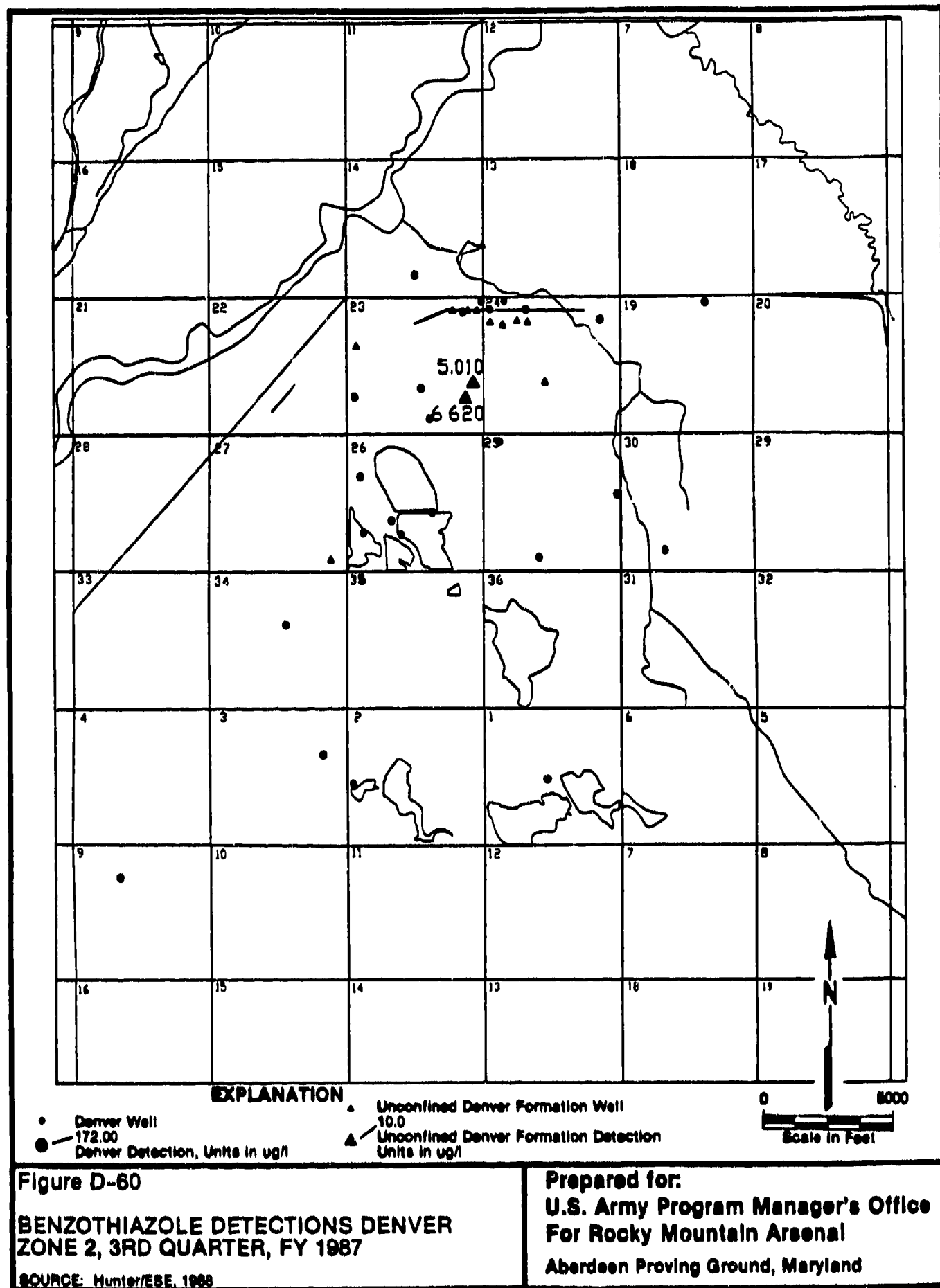
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

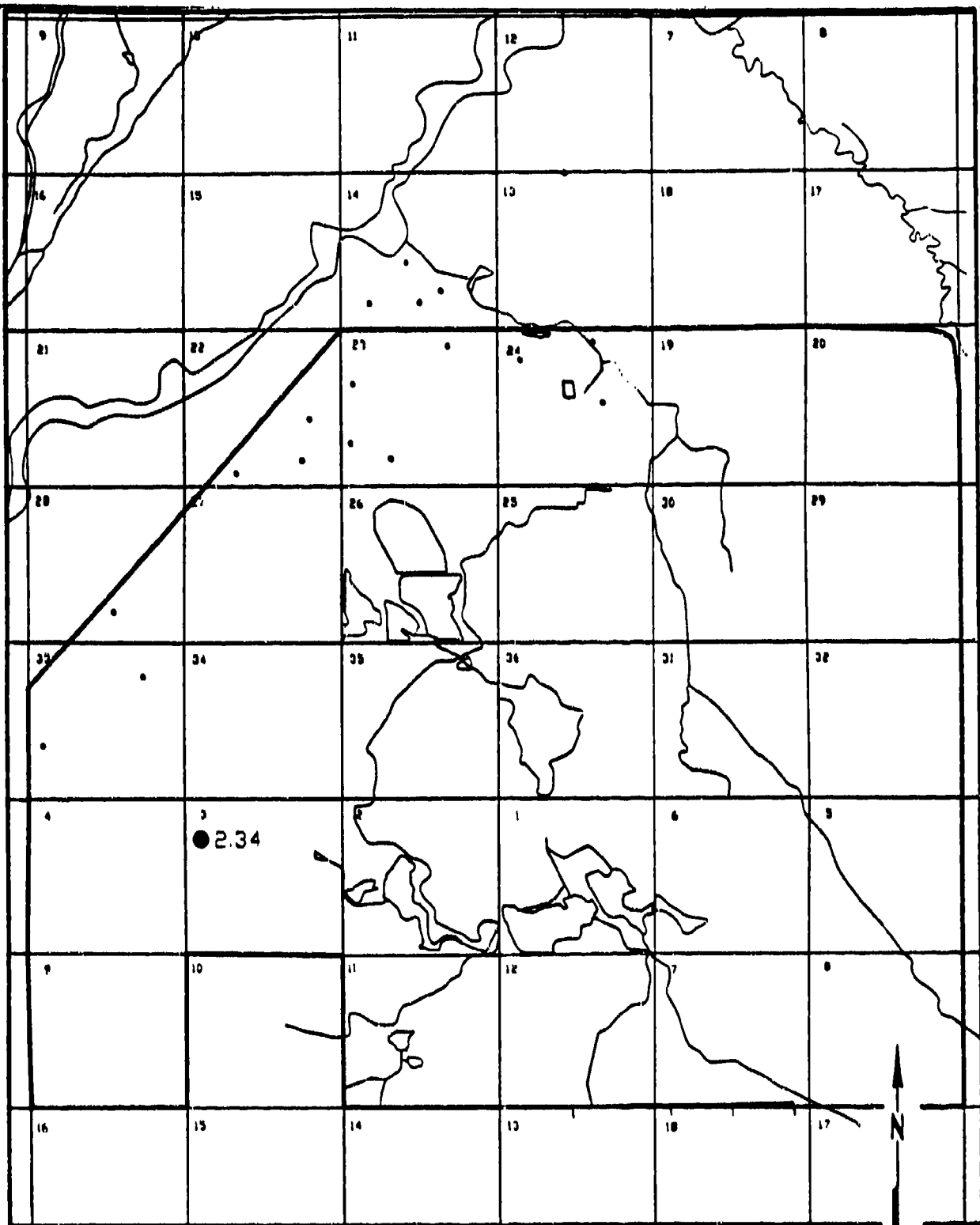
0 5000
Scale in Feet

Figure D-59
BENZOTHAZOLE DETECTIONS DENVER
ZONE 1 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



**EXPLANATION**

• Denver Well

● 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

▲ 10.0

▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-81

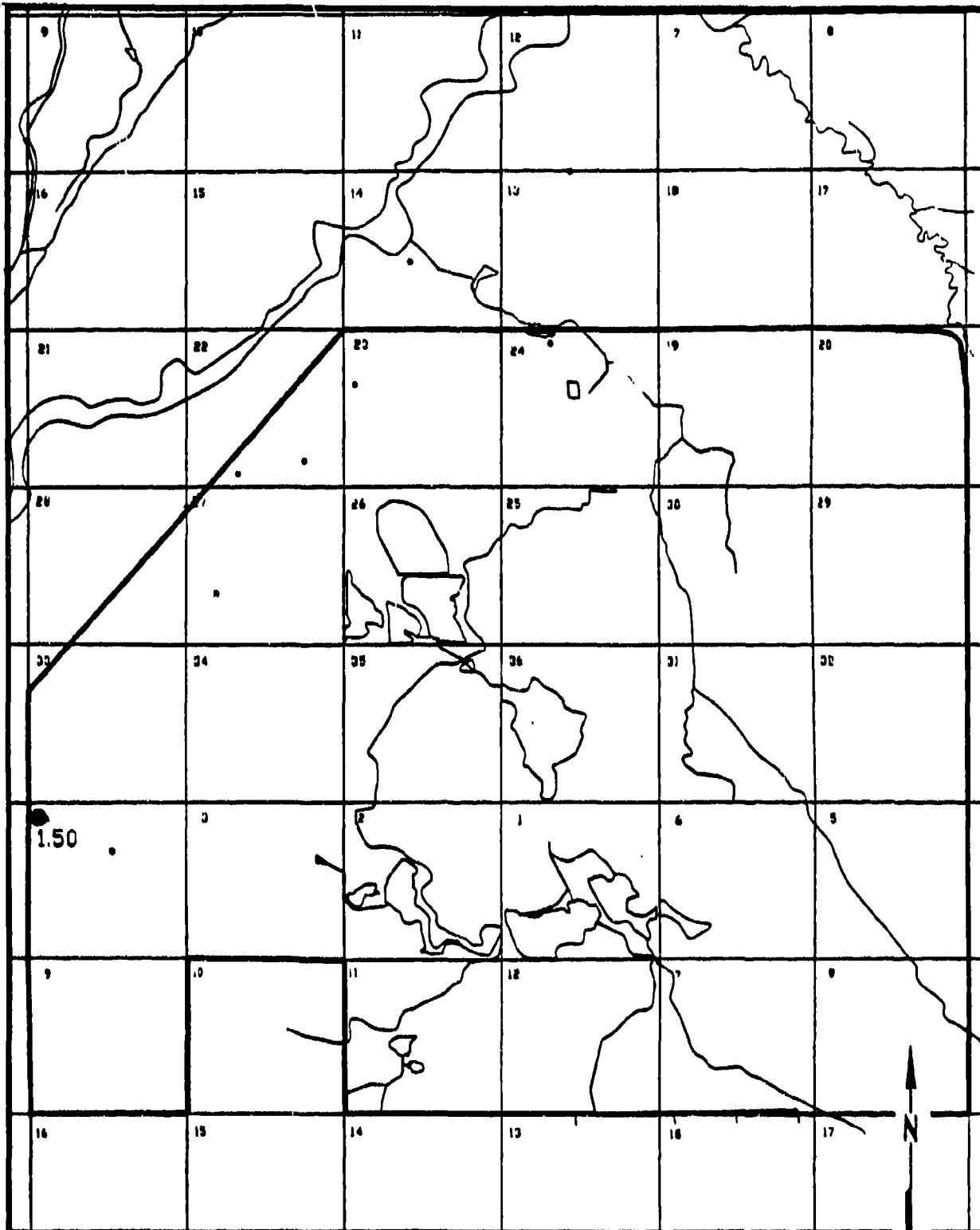
**BENZOTHAZOLE DETECTIONS DENVER
ZONE 4 3RD QUARTER FY 1987**

SOURCE: Hunter/ESE, 1988

Prepared for:

**U.S. Army Program Manager's Office
For Rocky Mountain Arsenal**

Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

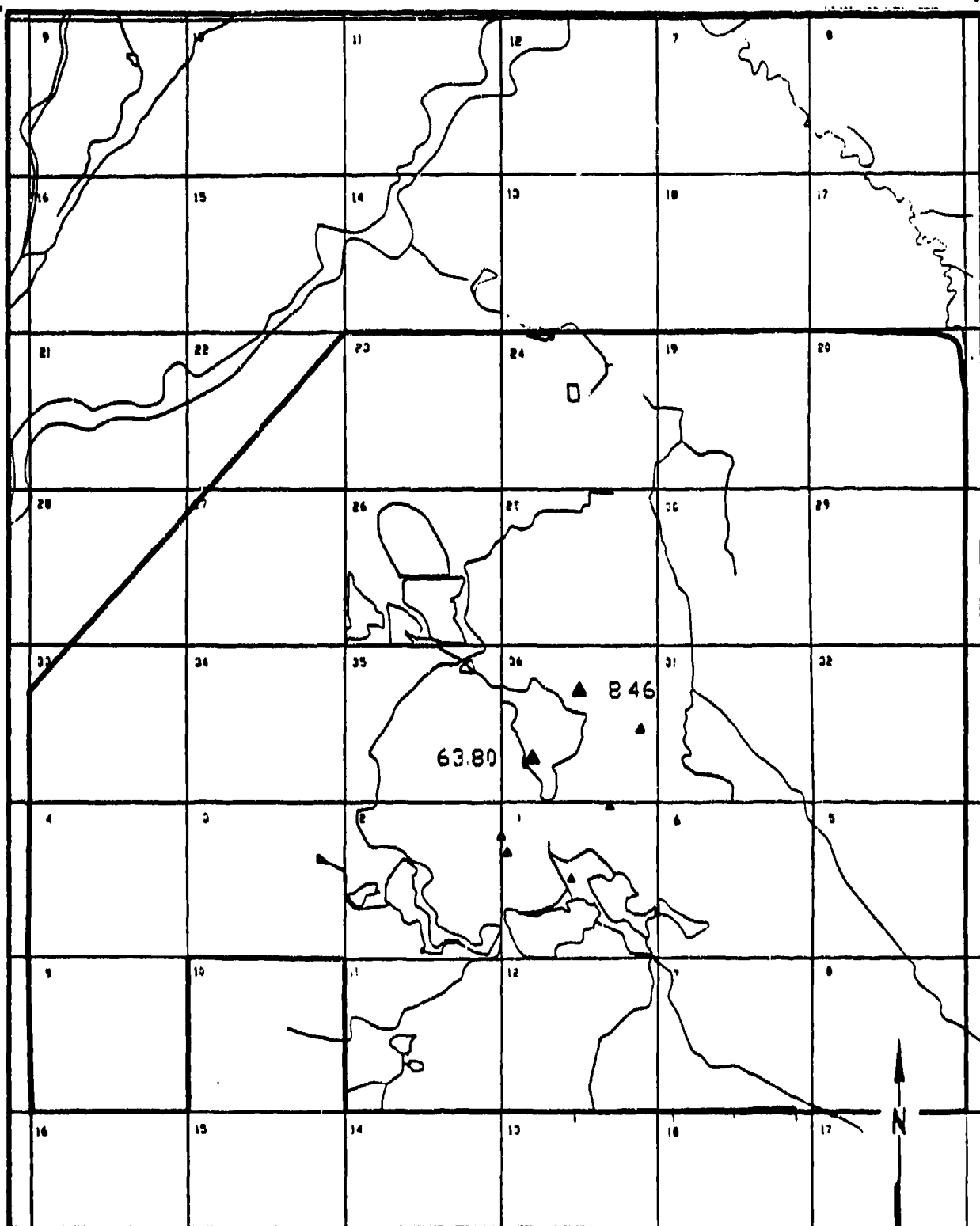
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-52
BENZOTHAZOLE DETECTIONS DENVER
ZONE 5 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

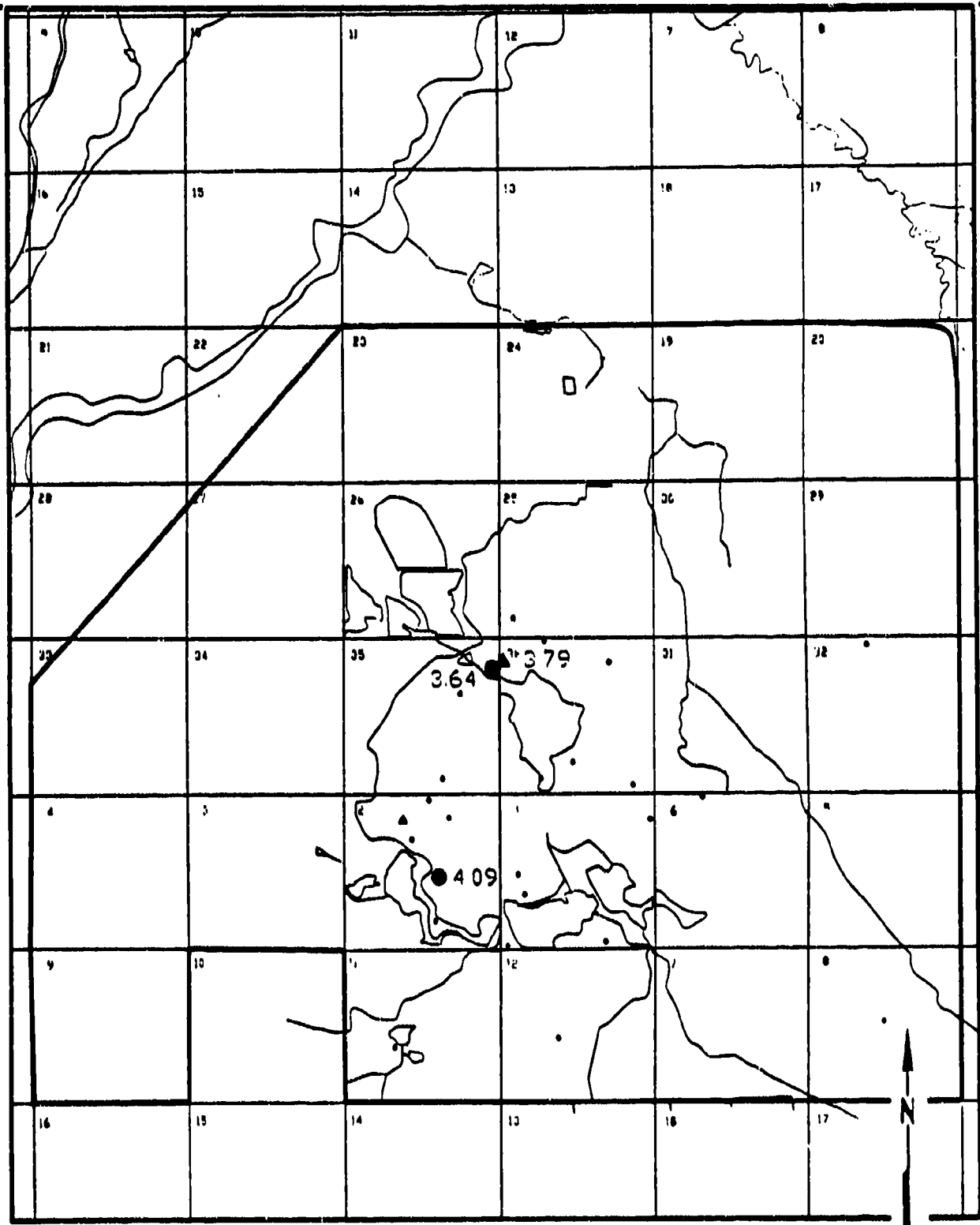
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-63
CPMS DETECTIONS DENVER ZONE VC/VCE
3RD QUARTER FY 1987

SOURCE: Hunter/ESB, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-64

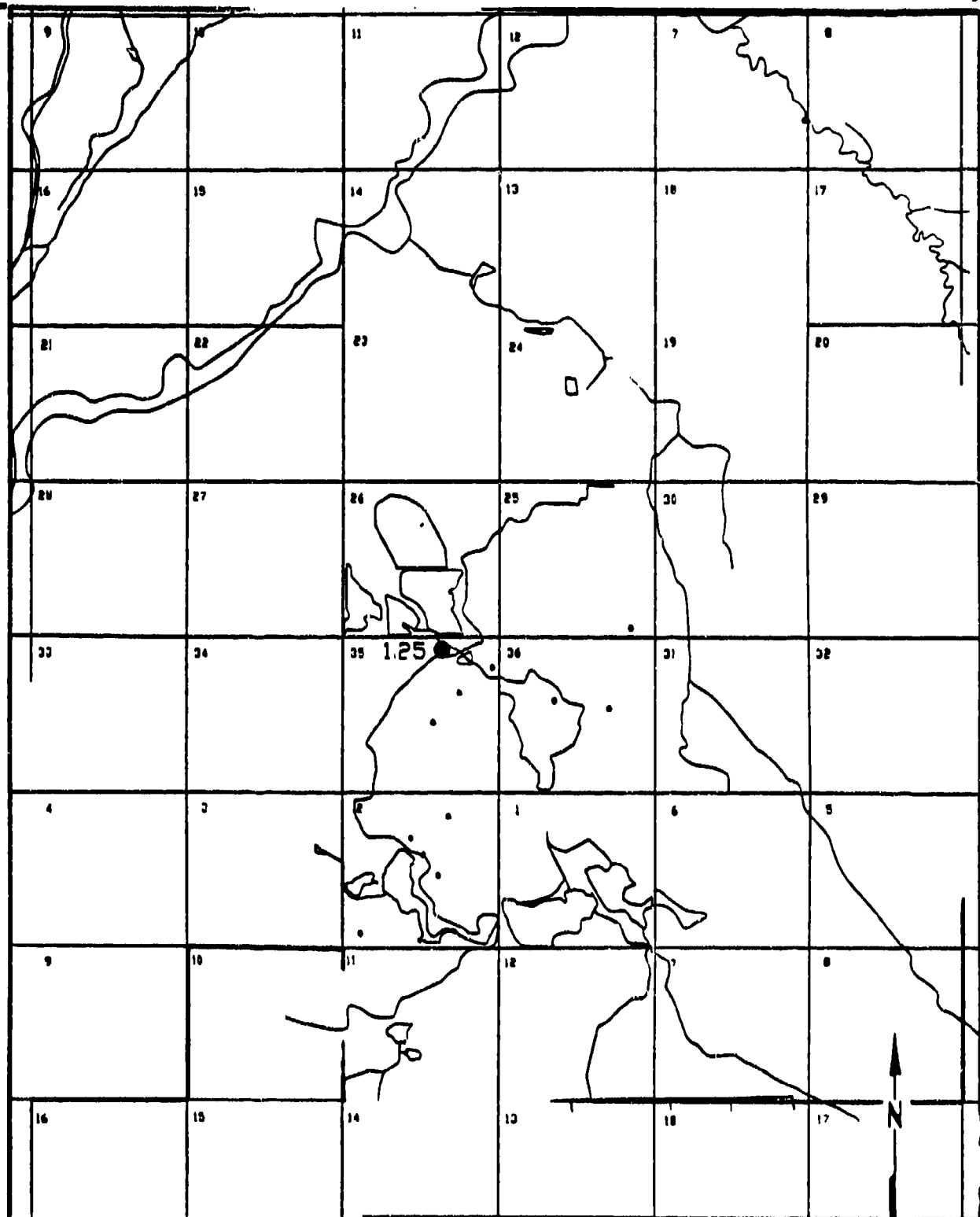
**CPMS DETECTIONS DENVER ZONE A
3RD QUARTER FY 1987**

SOURCE: Hunter/ESE, 1988

Prepared for:

**U.S. Army Program Manager's Office
For Rocky Mountain Arsenal**

Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l.

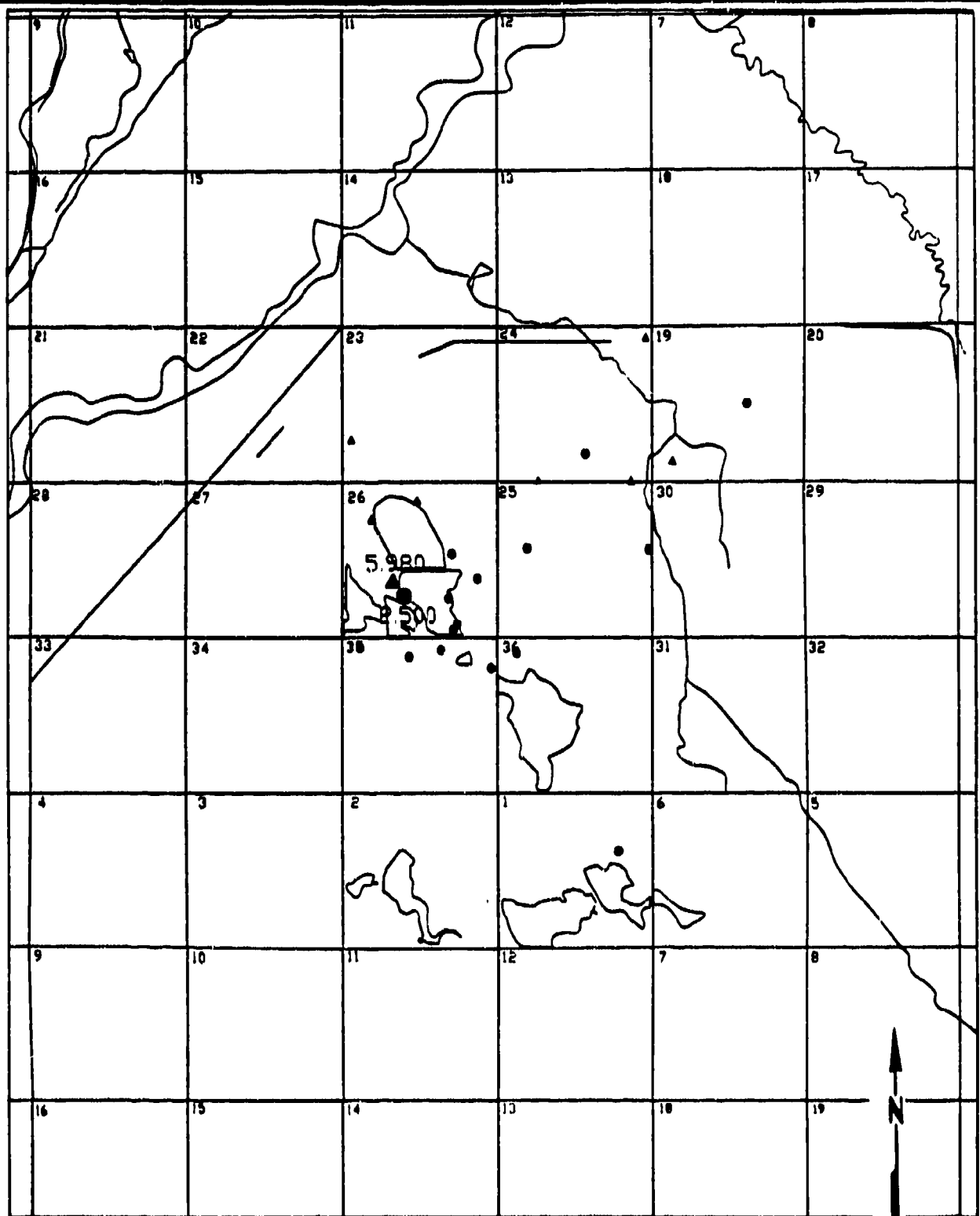
- ▲ Unconfined Denver Formation Well 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.



Figure D-85
CPMS DETECTIONS DENVER ZONE 1U
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- △ Unconfined Denver Formation Well
- △ 10.0
- △ Unconfined Denver Formation Detection
- Units in ug/l

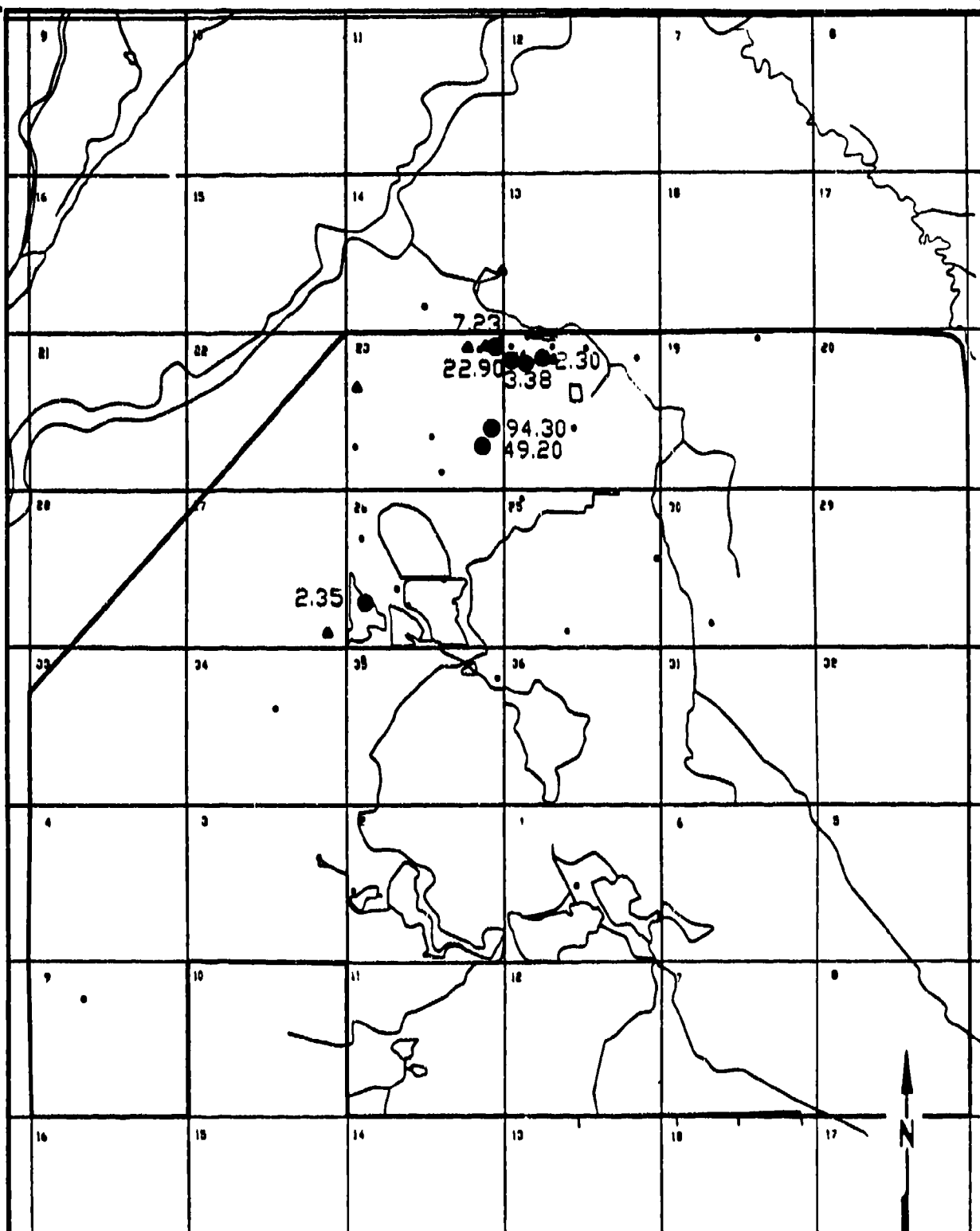
0 8000
Scale in Feet

Figure D-66

CPMS DETECTIONS DENVER ZONE 1,
3RD QUARTER, FY 1987

SOURCE: Hunter/EBE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00 Denver Detection, Units in ug/l.

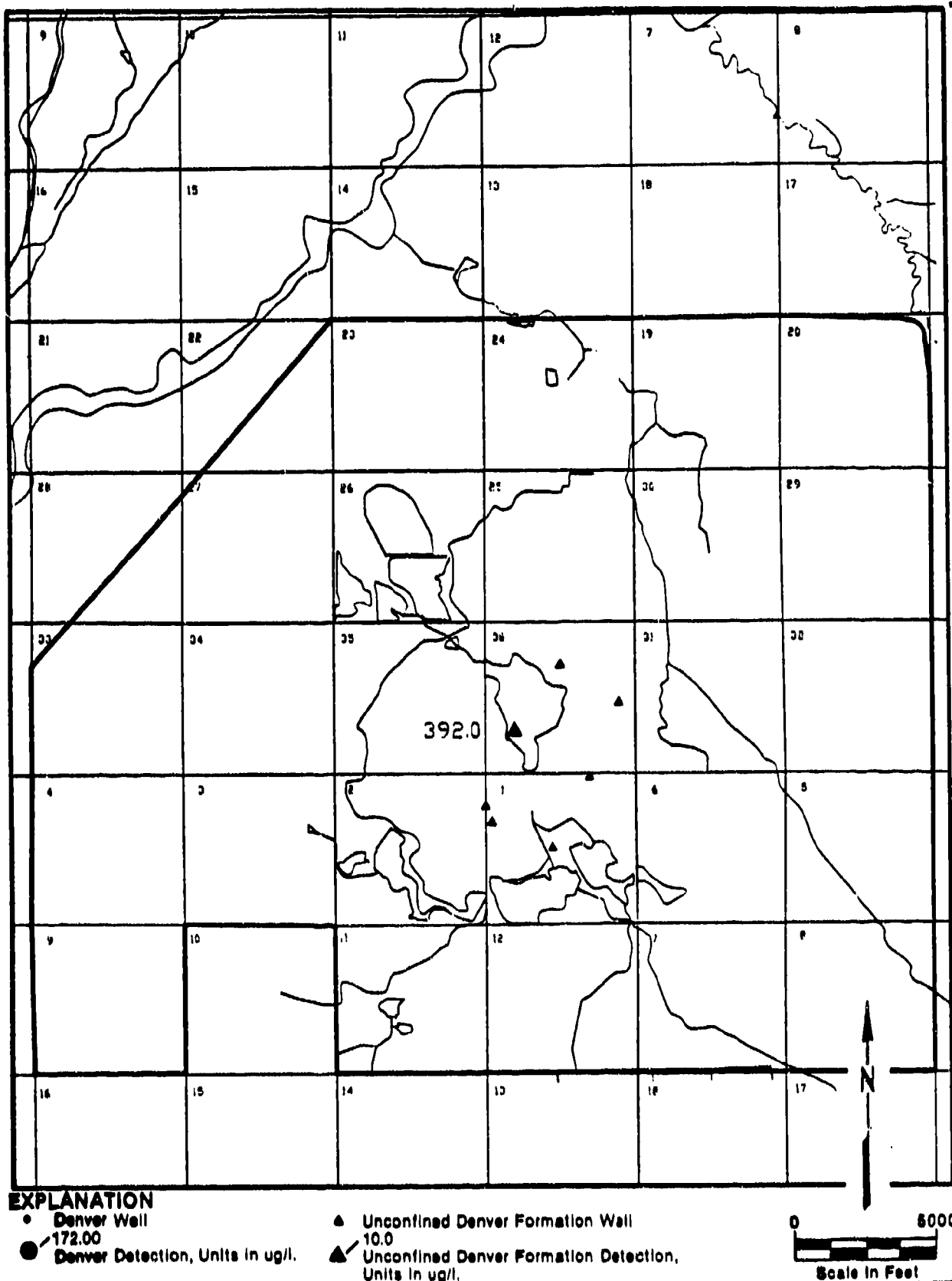
- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection, Units in ug/l.

0 8000
Scale in Feet

Figure D-67
CPMS DETECTIONS DENVER ZONE 2
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00 Denver Detection, Units in ug/l.

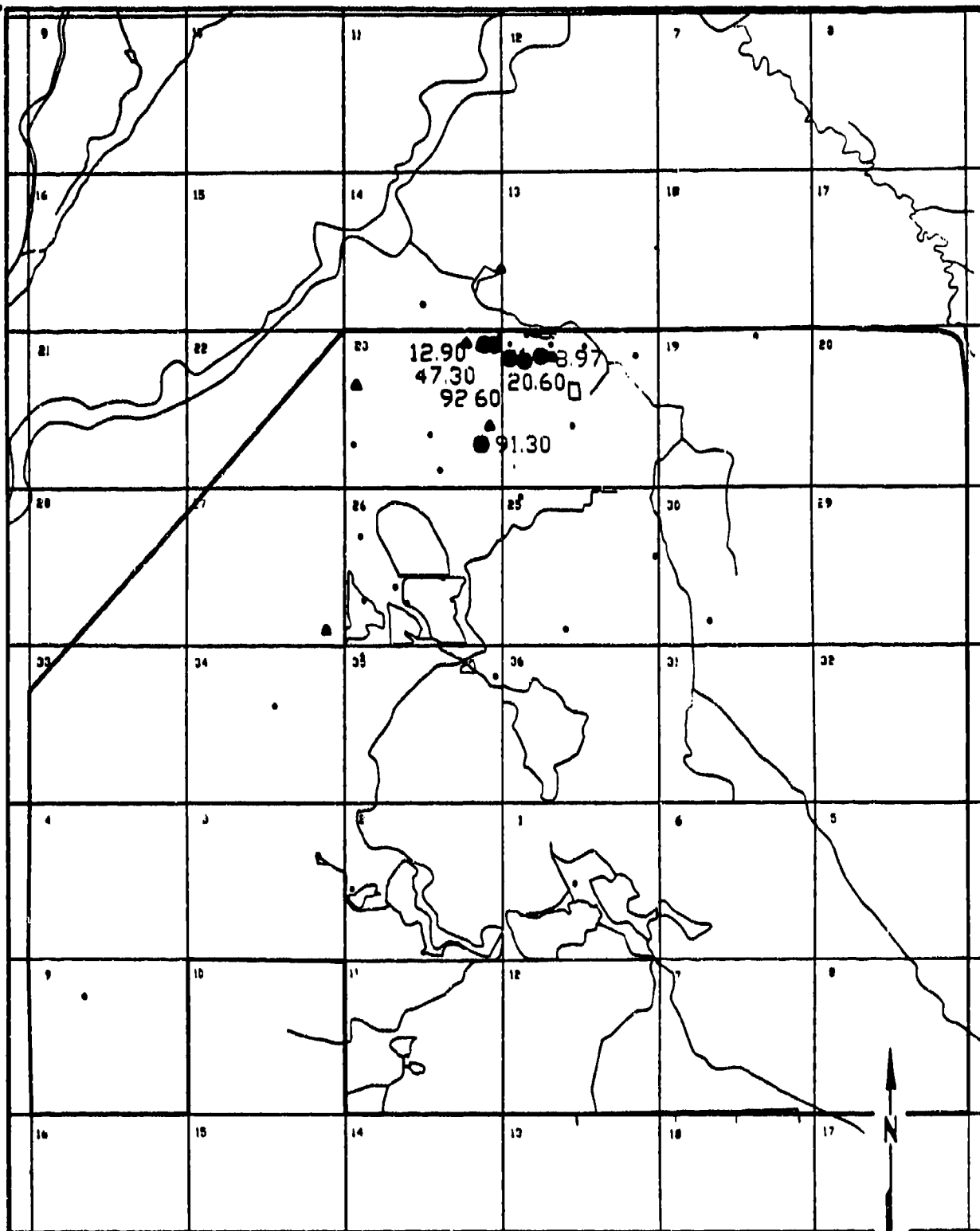
- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection, Units in ug/l.

0 6000
Scale in Feet

Figure D-88
CPMSO DETECTIONS DENVER ZONE VCVCE
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

• Denver Well

172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

10.0

▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-89

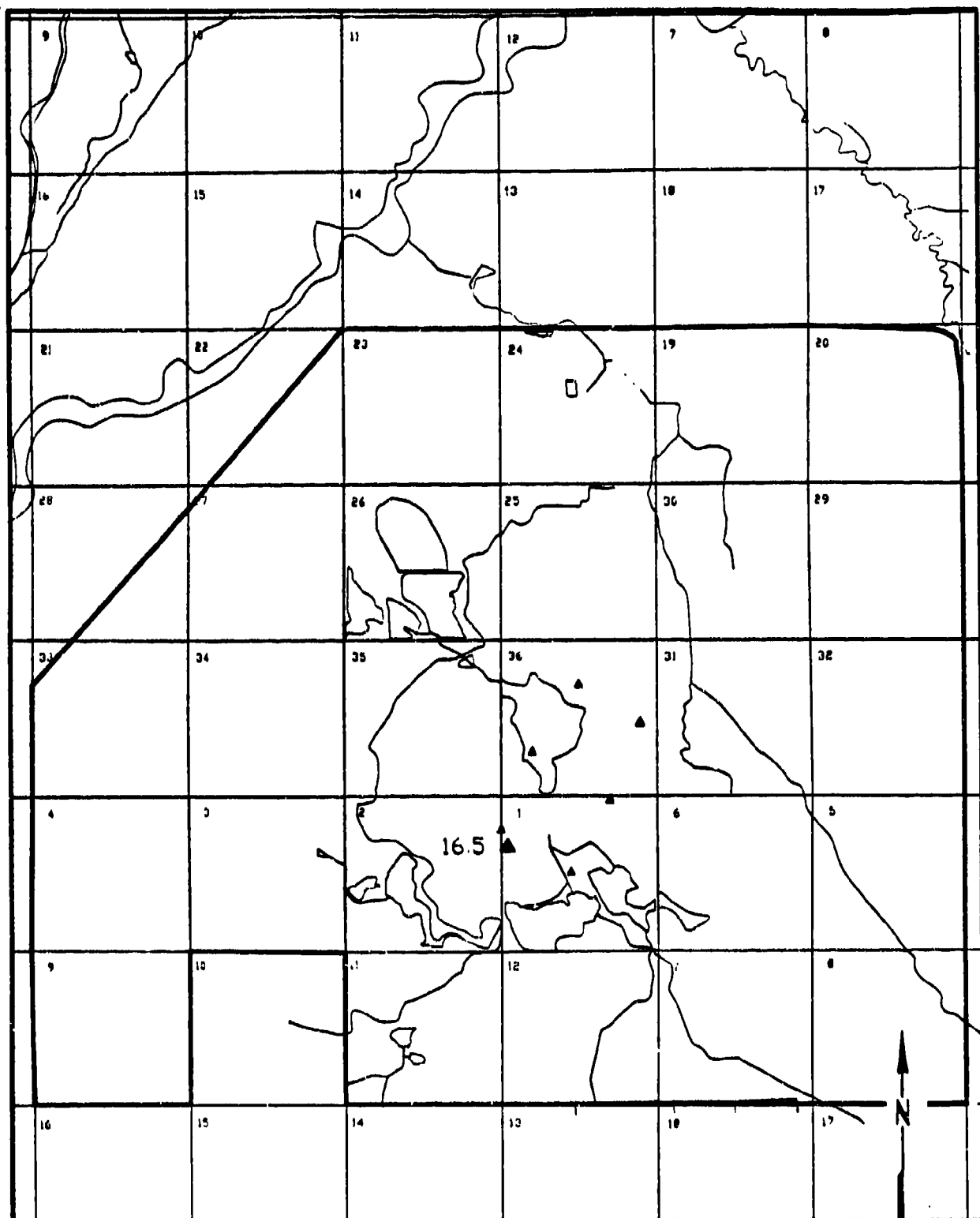
CPMSO DETECTIONS DENVER ZONE 2
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:

U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

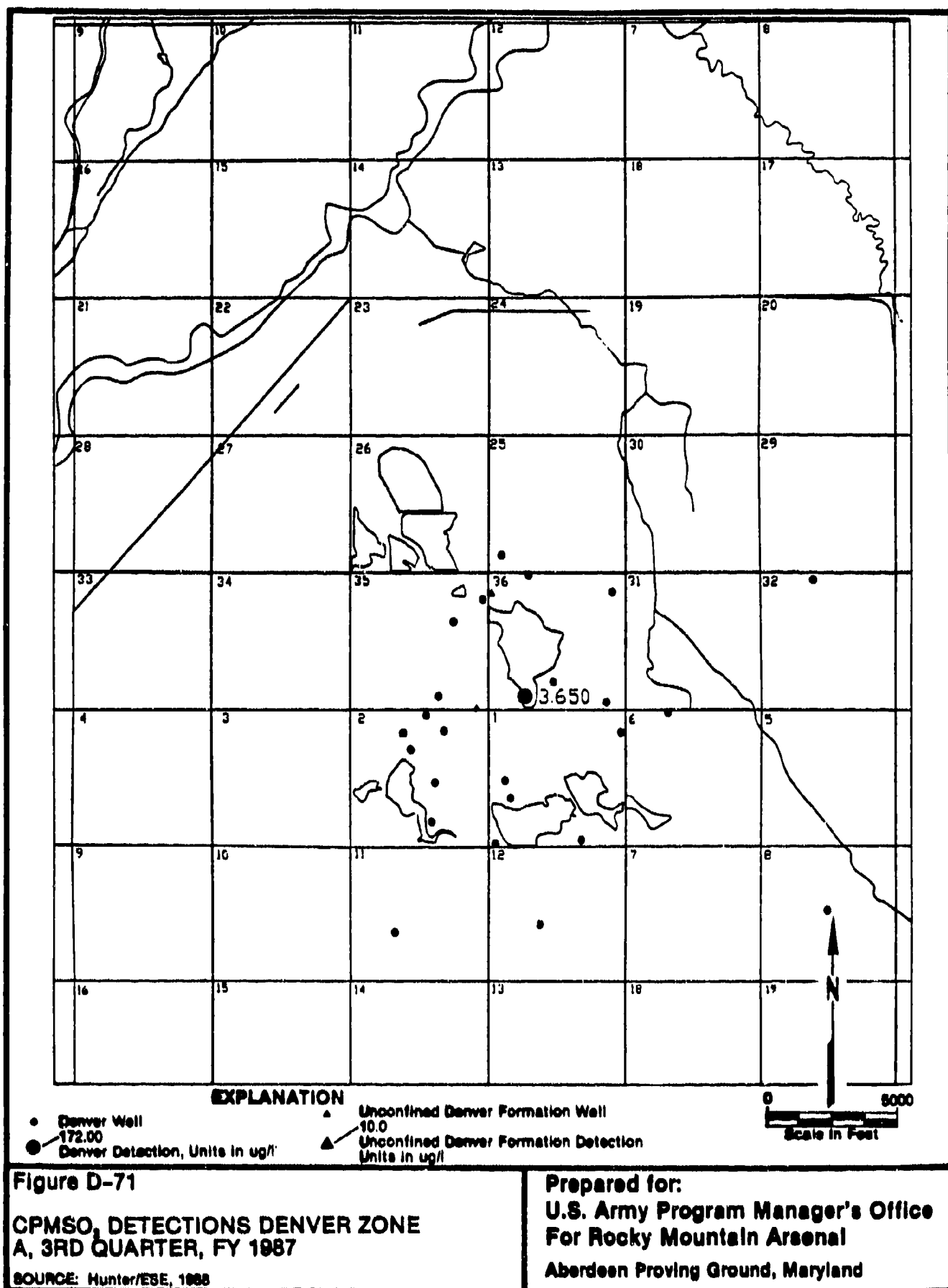
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

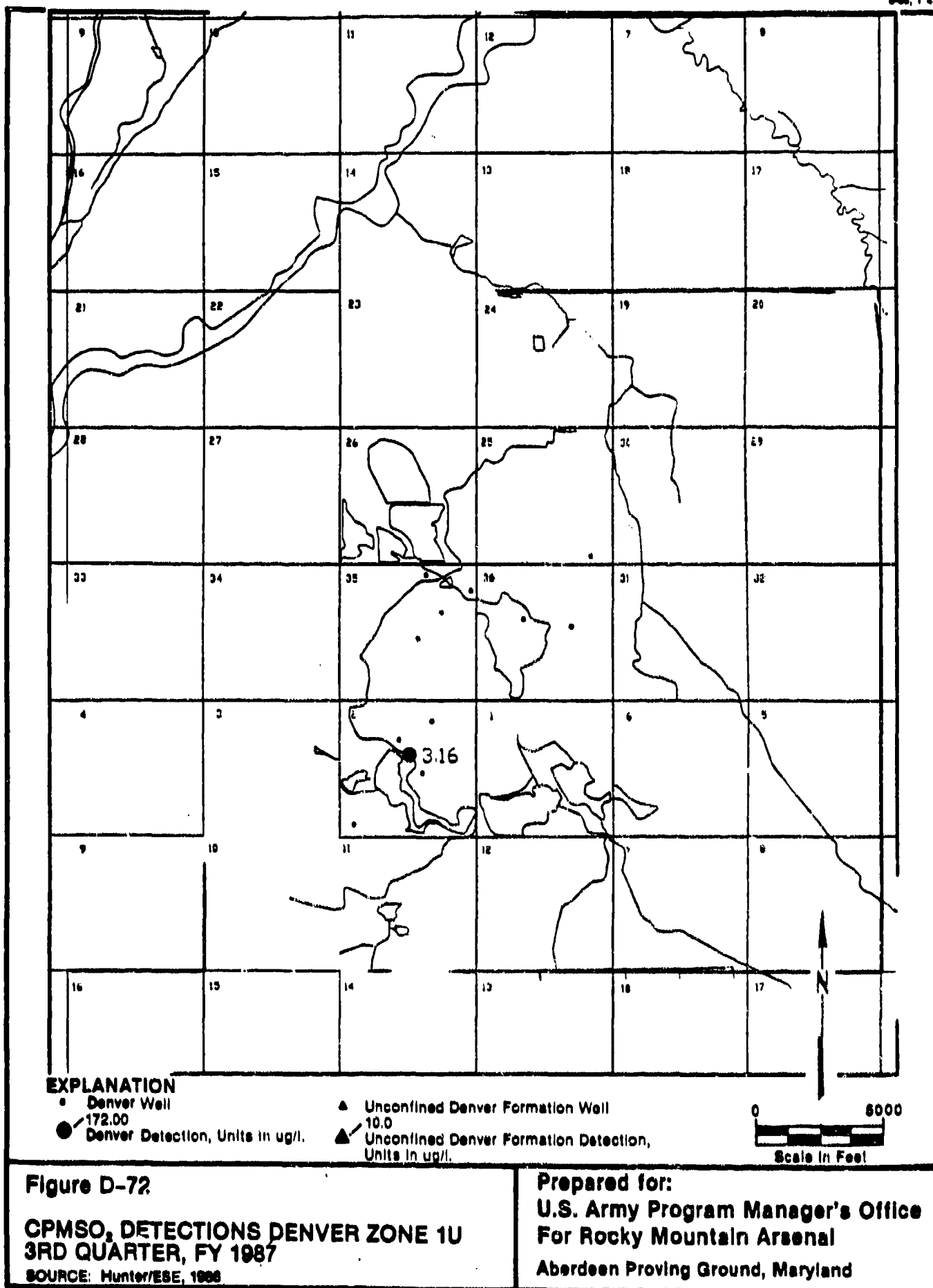
0 5000
Scale in Feet

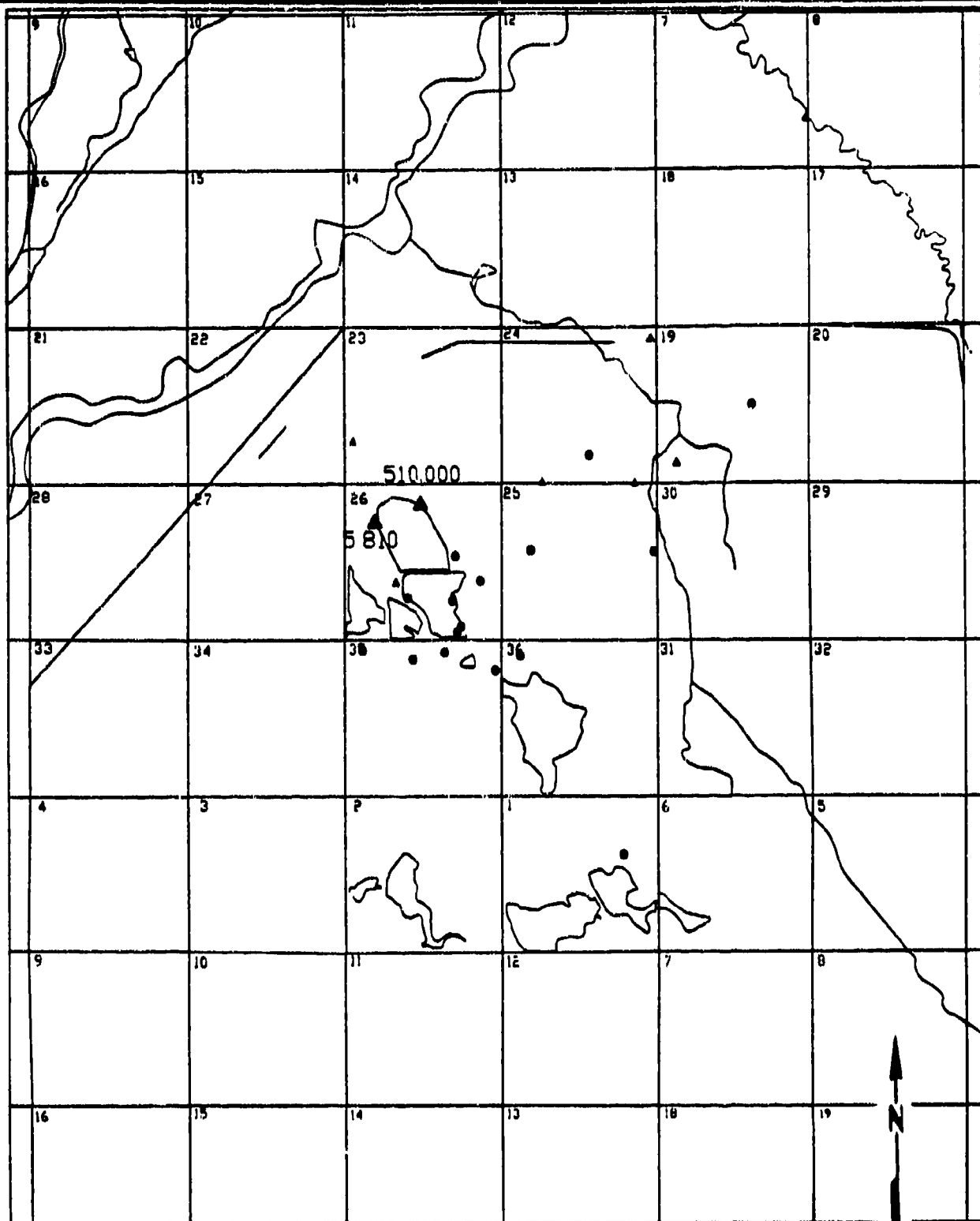
Figure D-70
CPMSO, DETECTIONS DENVER ZONE VC/VCE
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland







EXPLANATION

• Denver Well
 ● 172.00
 Denver Detection, Units in ug/l

▲ Unconfined Denver Formation Well
 ▲ 10.0
 Unconfined Denver Formation Detection
 Units in ug/l

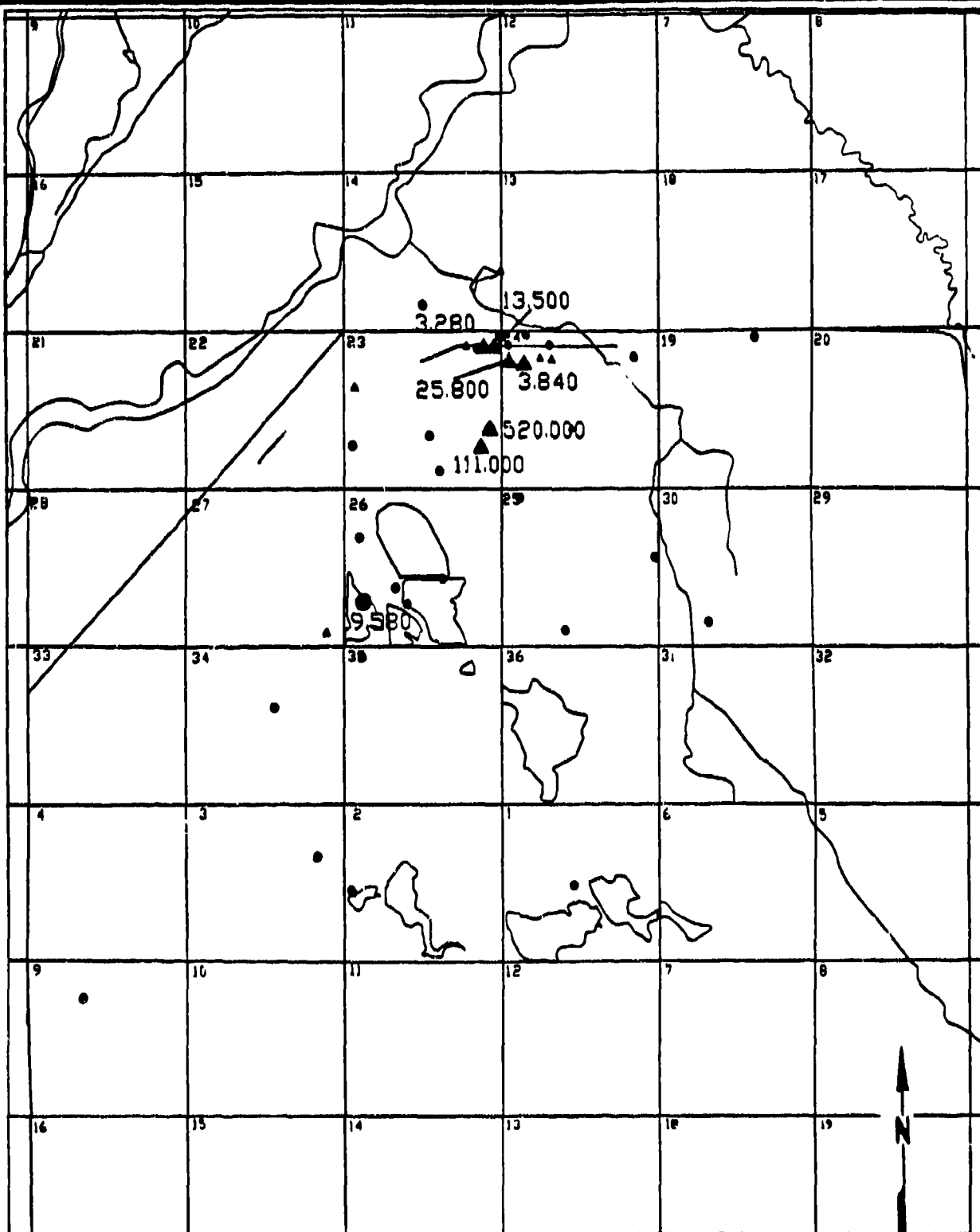
0 8000
 Scale in Feet

Figure D-73

**CPMSO, DETECTIONS DENVER ZONE 1,
 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
 U.S. Army Program Manager's Office
 For Rocky Mountain Arsenal
 Aberdeen Proving Ground, Maryland**



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- ▲ Units in ug/l

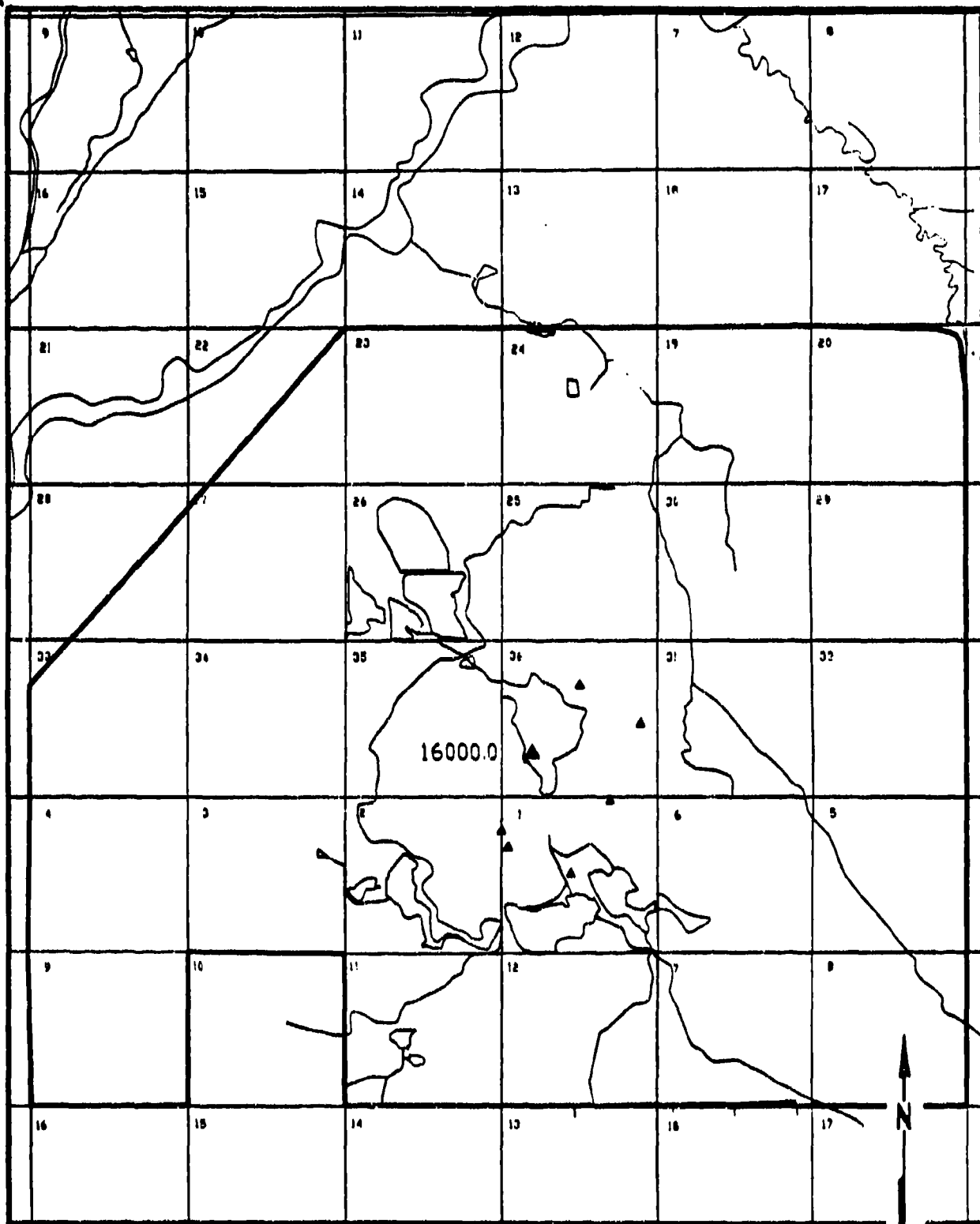
0 8000
Scale in Feet

Figure D-74

**CPMSO, DETECTIONS DENVER ZONE 2,
3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

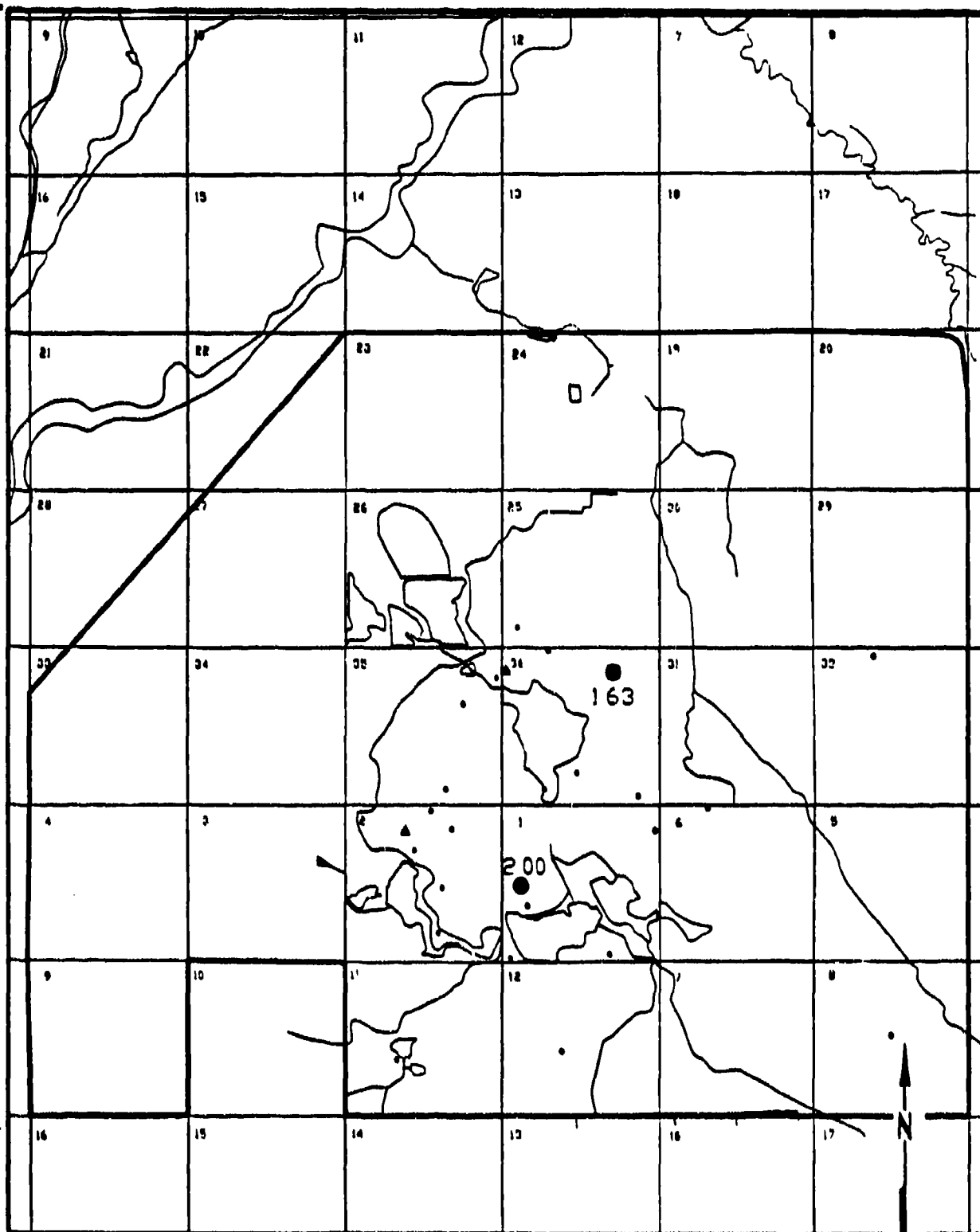
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-75
BENZENE DETECTIONS DENVER ZONE
VCVCE 3RD QUARTER, FY 1987

SOURCE: Hunter/EBE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

• Denver Well

● 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

▲ 10.0

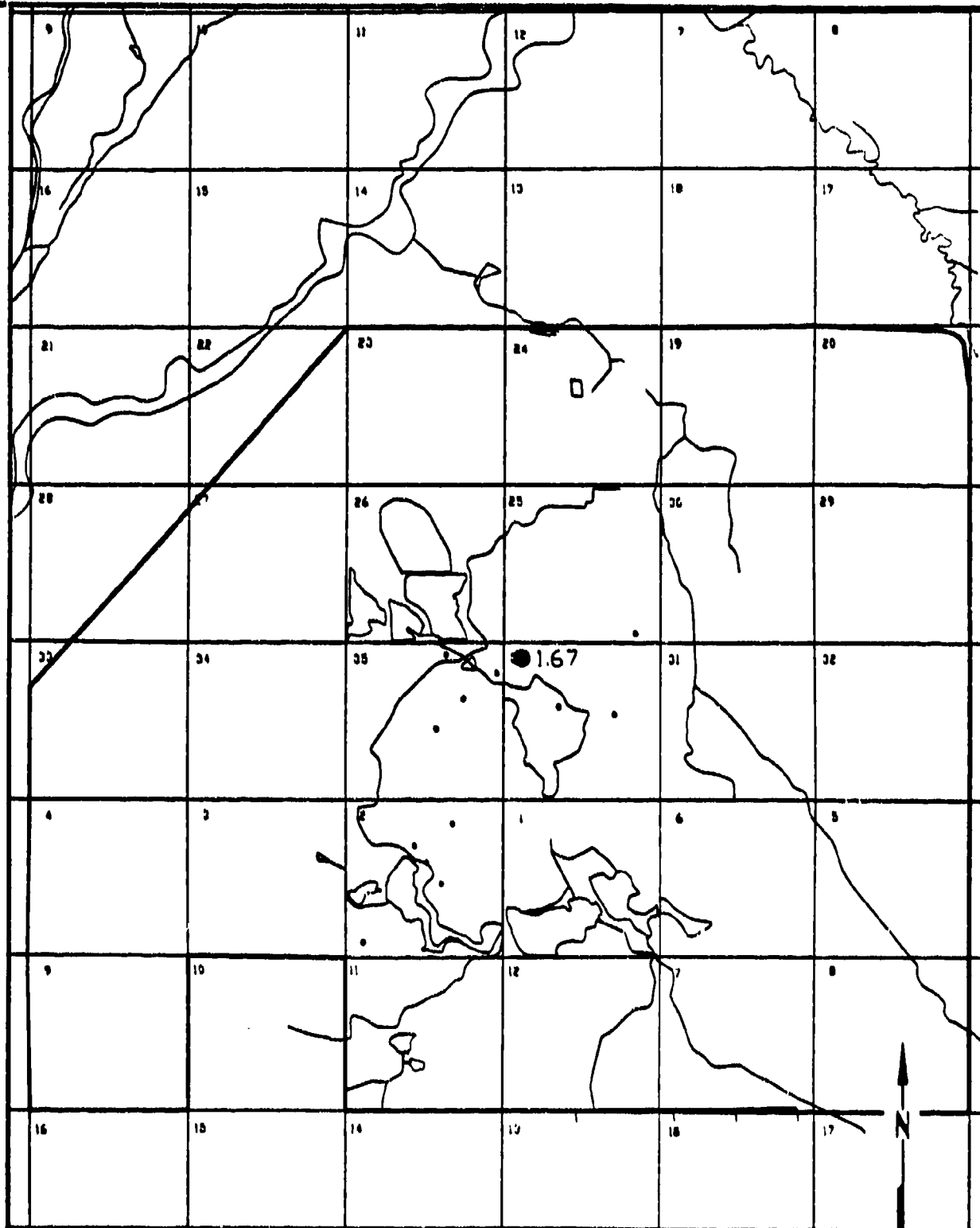
▲ Unconfined Denver Formation Detection, Units in ug/l.

0 8000
Scale in Feet

Figure D-76
BENZENE DETECTIONS DENVER ZONE A
3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

• Denver Well

● 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

10.0

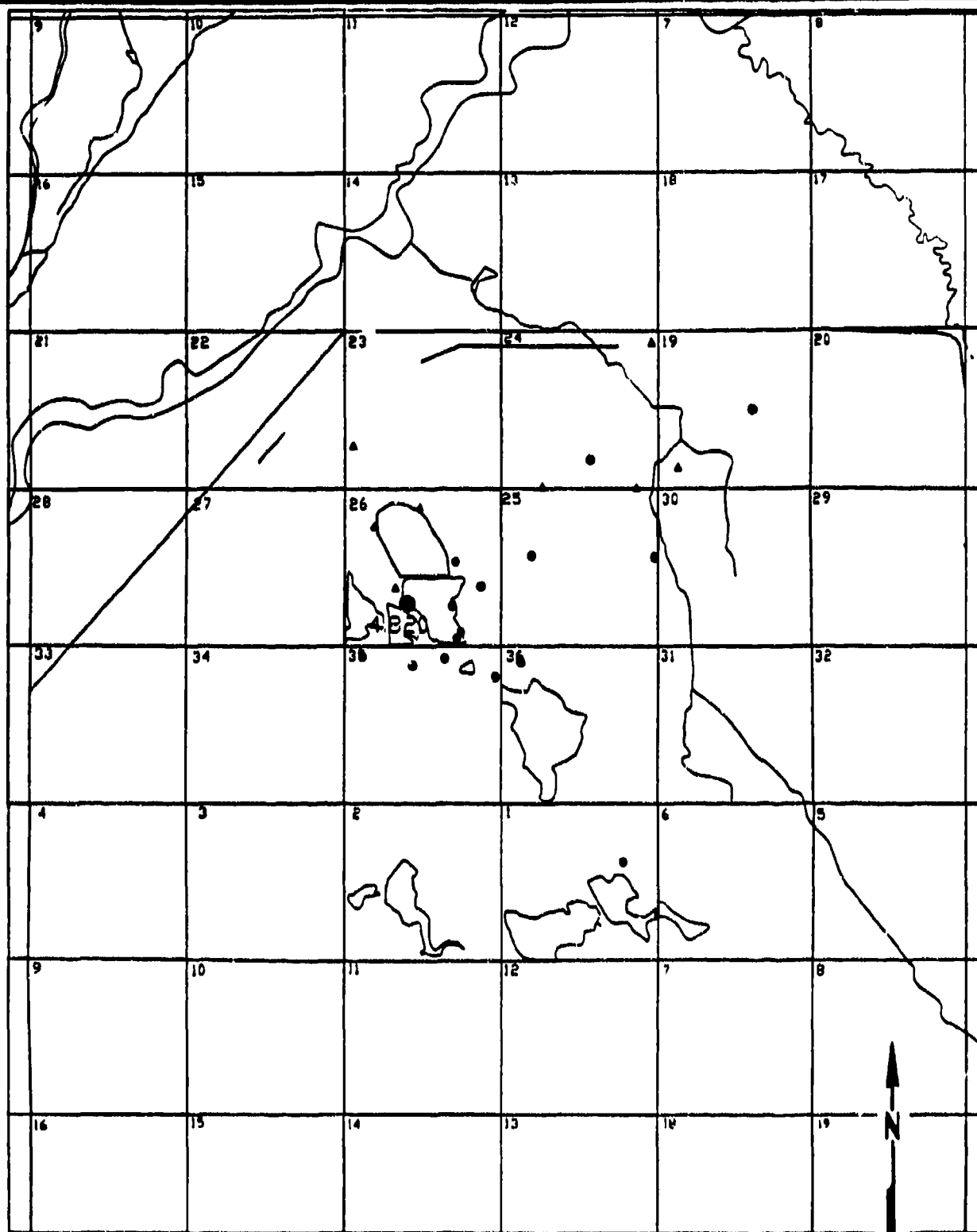
▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-77
BENZENE DETECTIONS DENVER ZONE 1U
3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- Units in ug/l

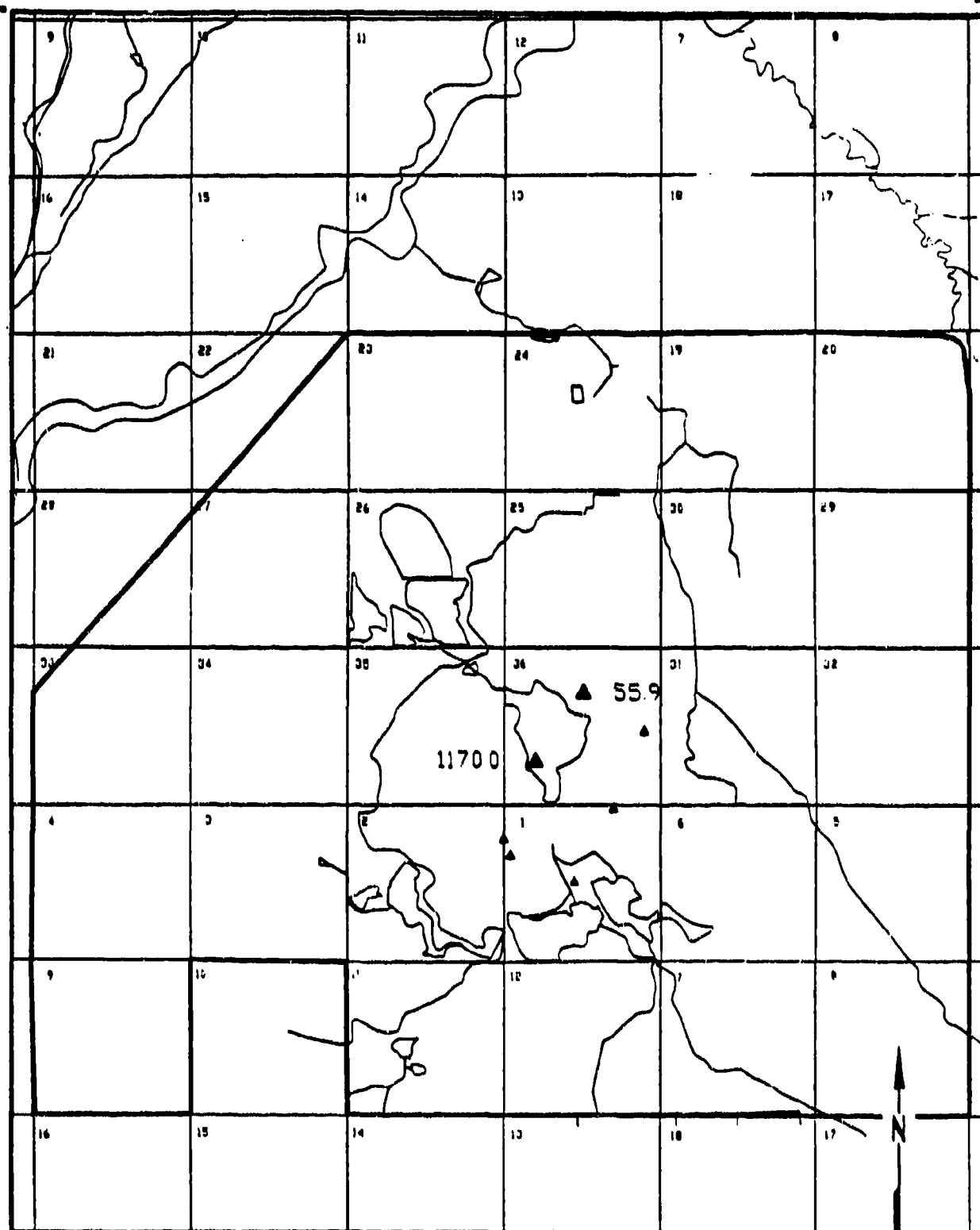
0 8000
Scale in Feet

Figure D-78

**BENZENE DETECTIONS DENVER ZONE 1,
3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**

**EXPLANATION**

• Denver Well

● 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

▲ 10.0

▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-79

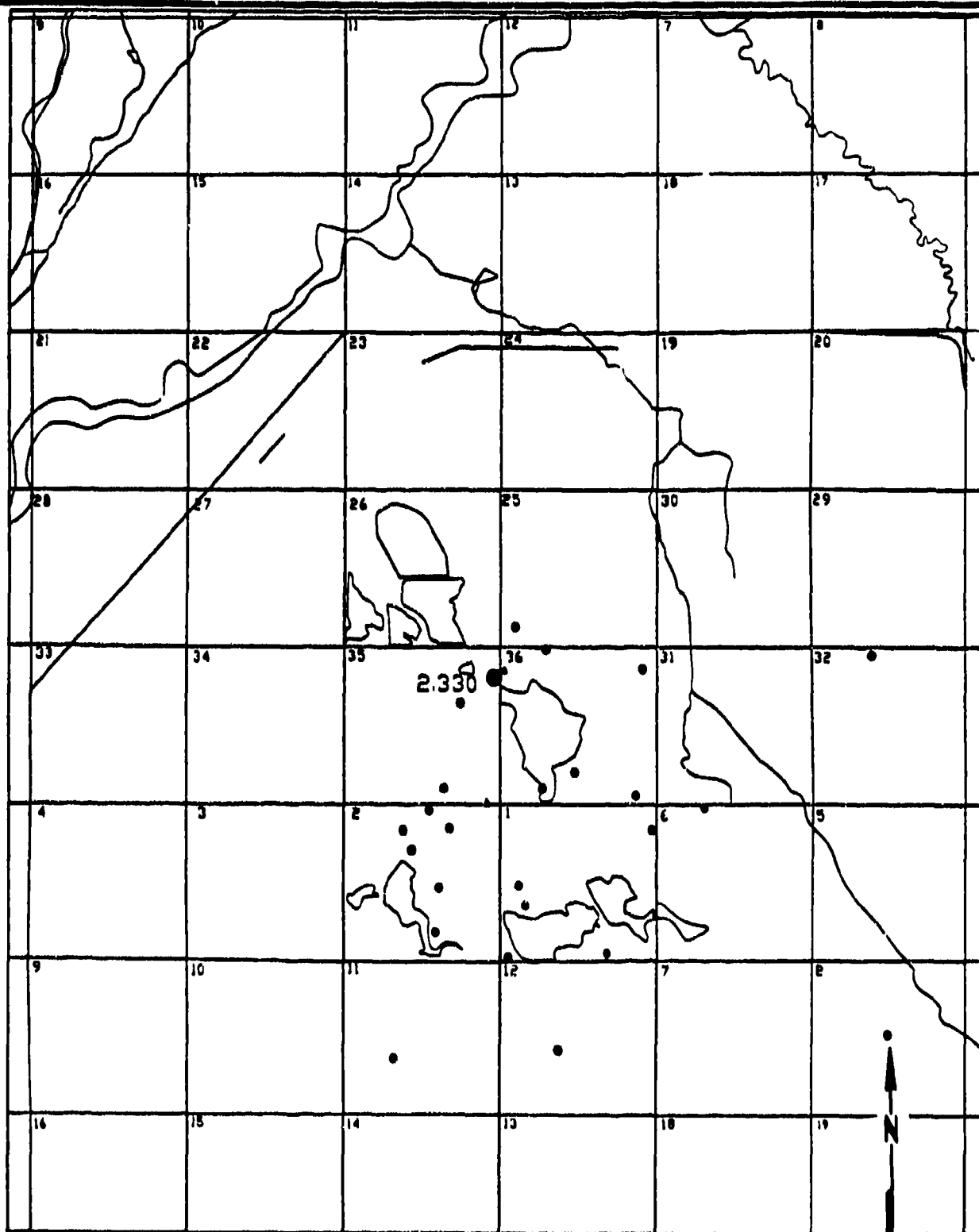
**CHLOROBENZENE DETECTIONS DENVER
ZONE VC/VCE 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

Prepared for:

**U.S. Army Program Manager's Office
For Rocky Mountain Arsenal**

Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- ▲ Units in ug/l

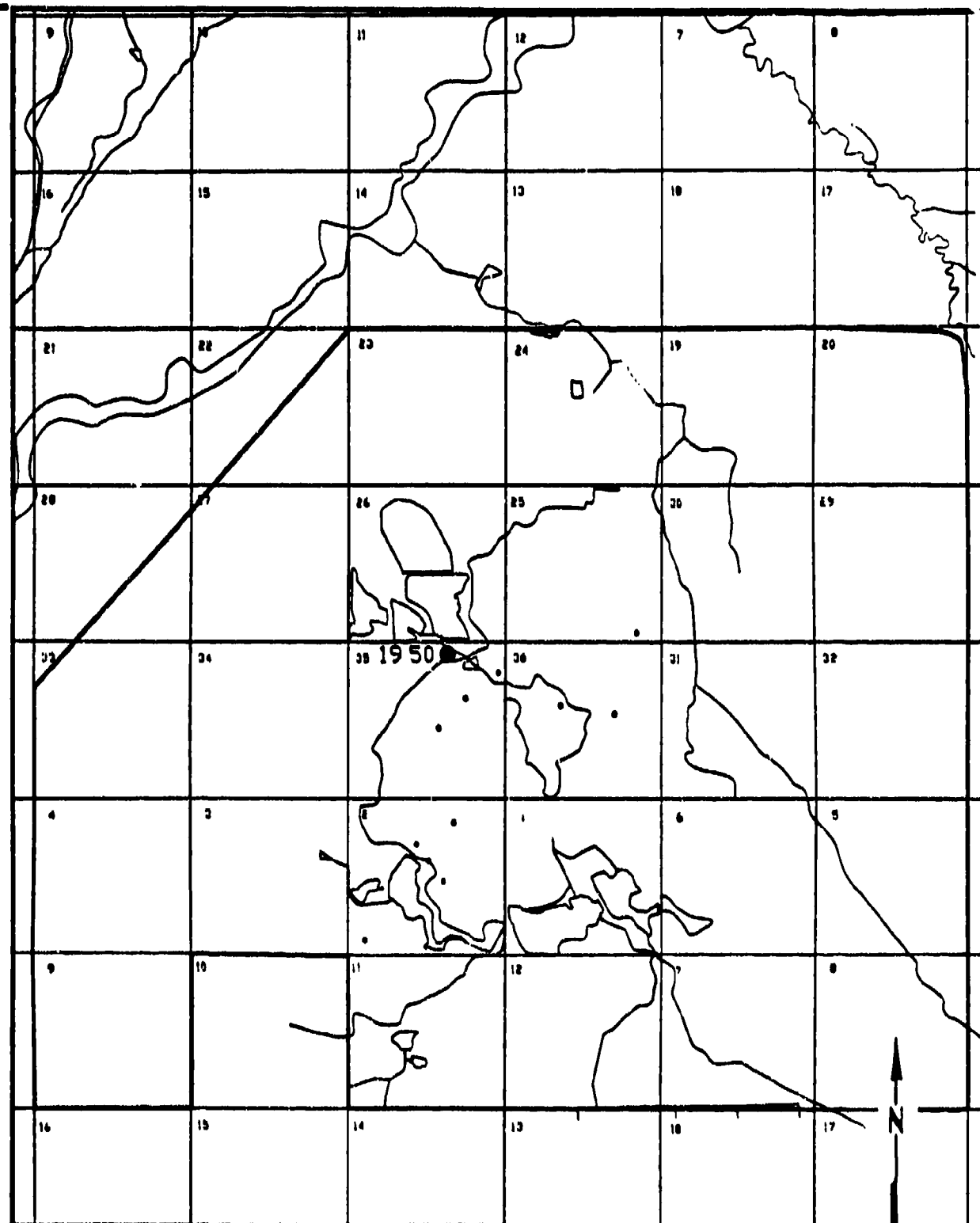
0 8000
Scale in Feet

Figure D-80

CHLOROBENZENE DETECTIONS DENVER
ZONE A, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

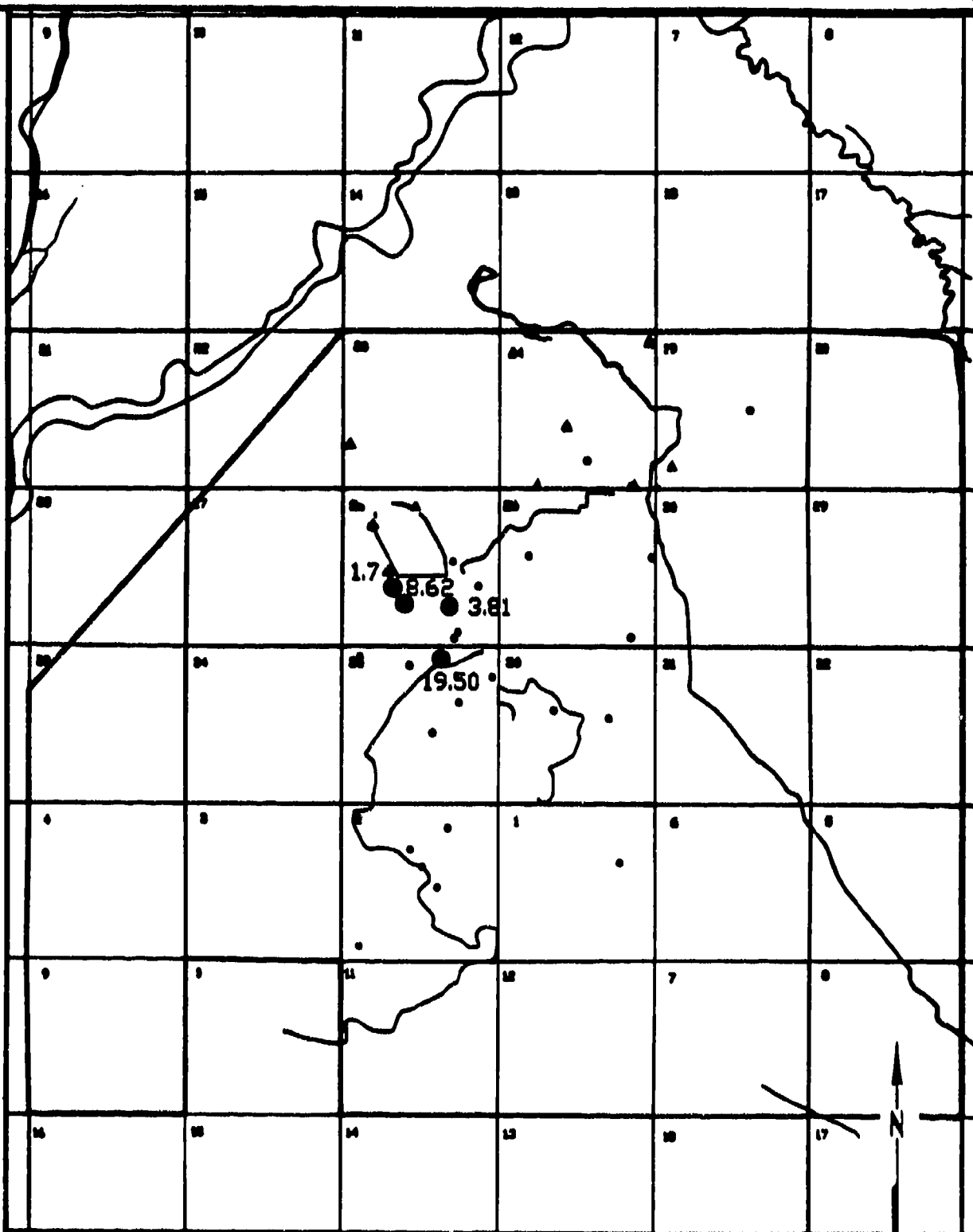
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-81
CHLOROBENZENE DETECTIONS DENVER
ZONE 1U 3RD QUARTER, FY 1987

SOURCE: Hunter/ESB, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l.

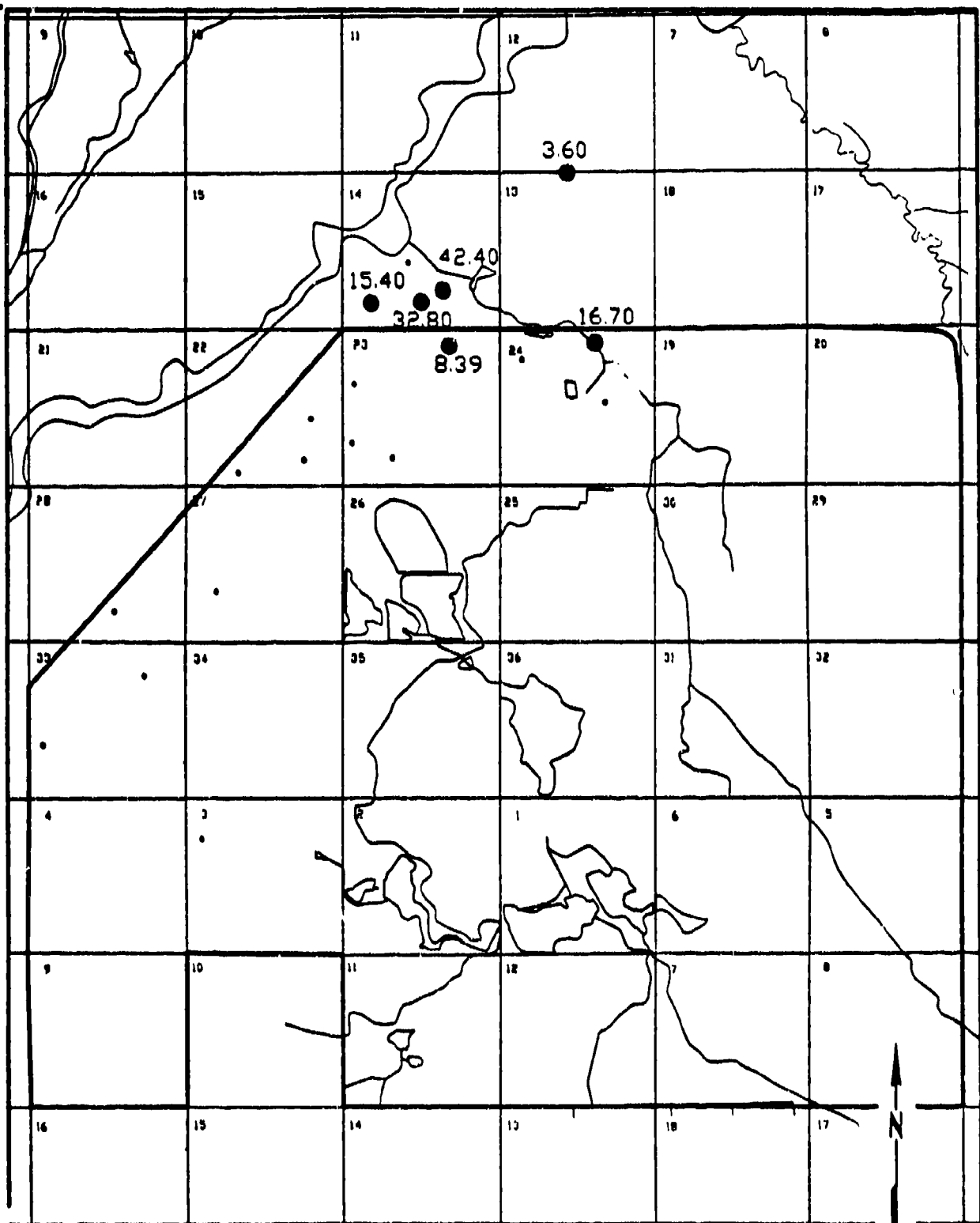
- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-82
CHLOROBENZENE DETECTIONS DENVER
ZONE 1 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

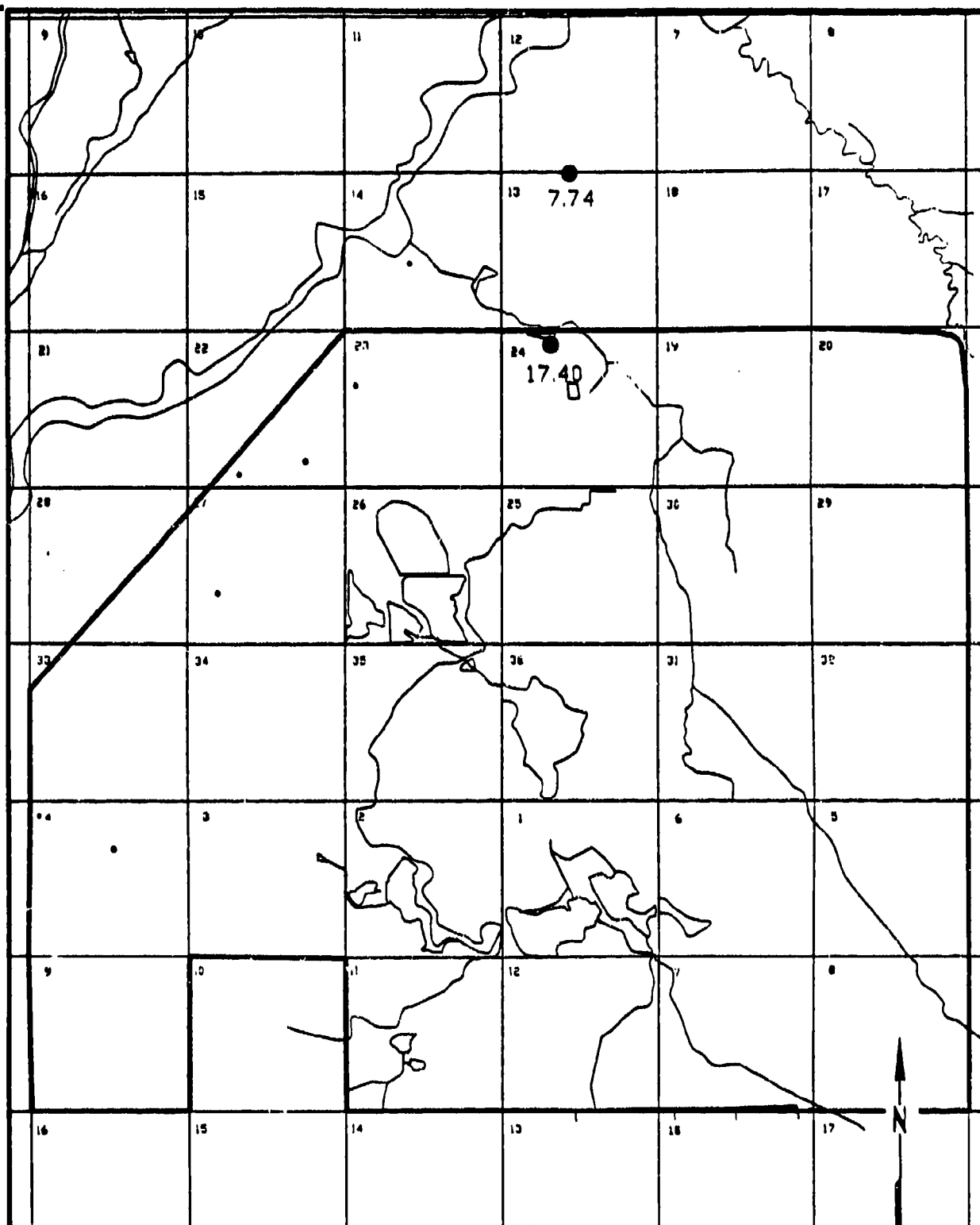
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-83
CHLOROBENZENE DETECTIONS DENVER
ZONE 4 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-84
CHLOROBENZENE DETECTIONS DENVER
ZONE 5 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

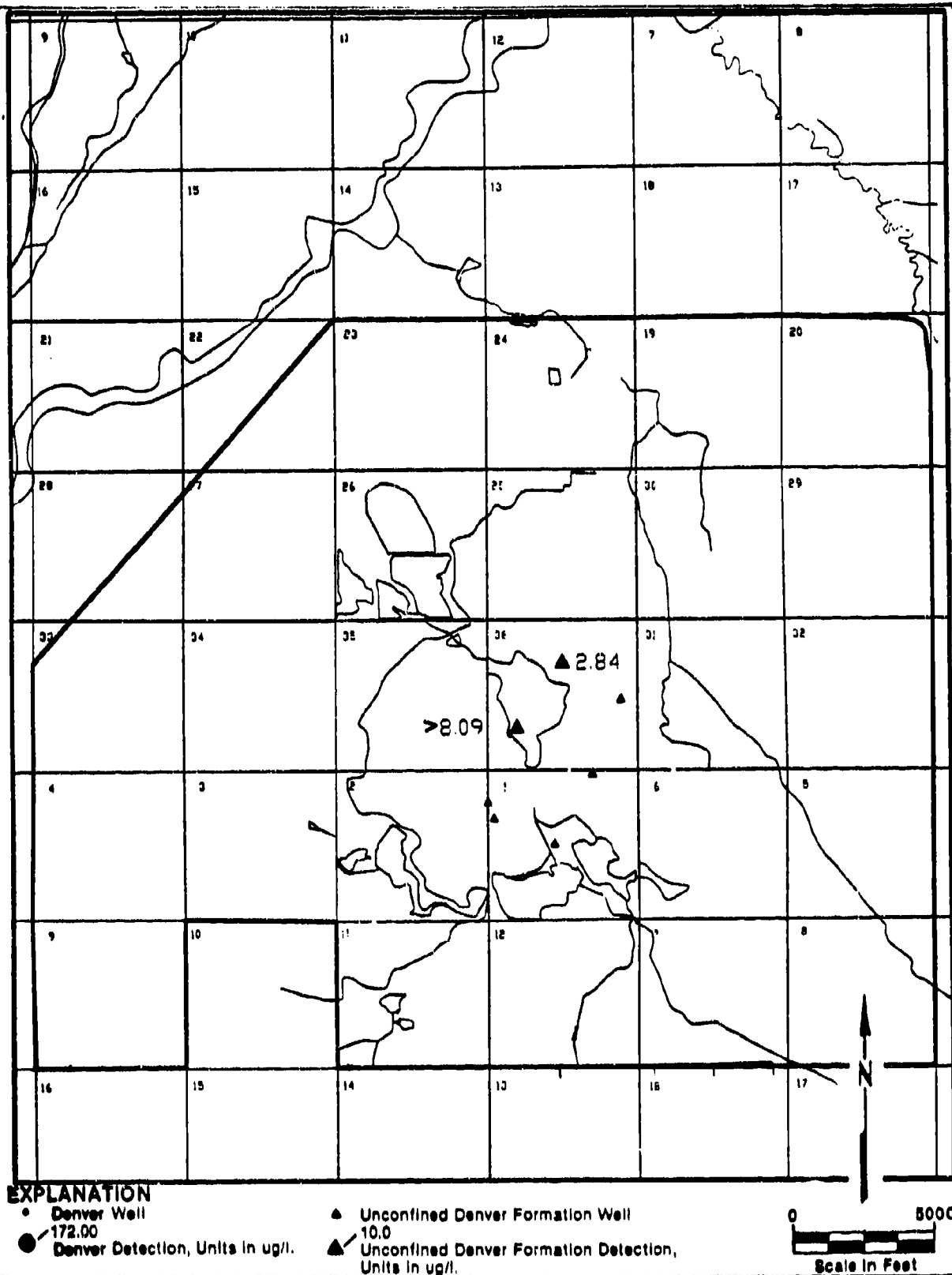


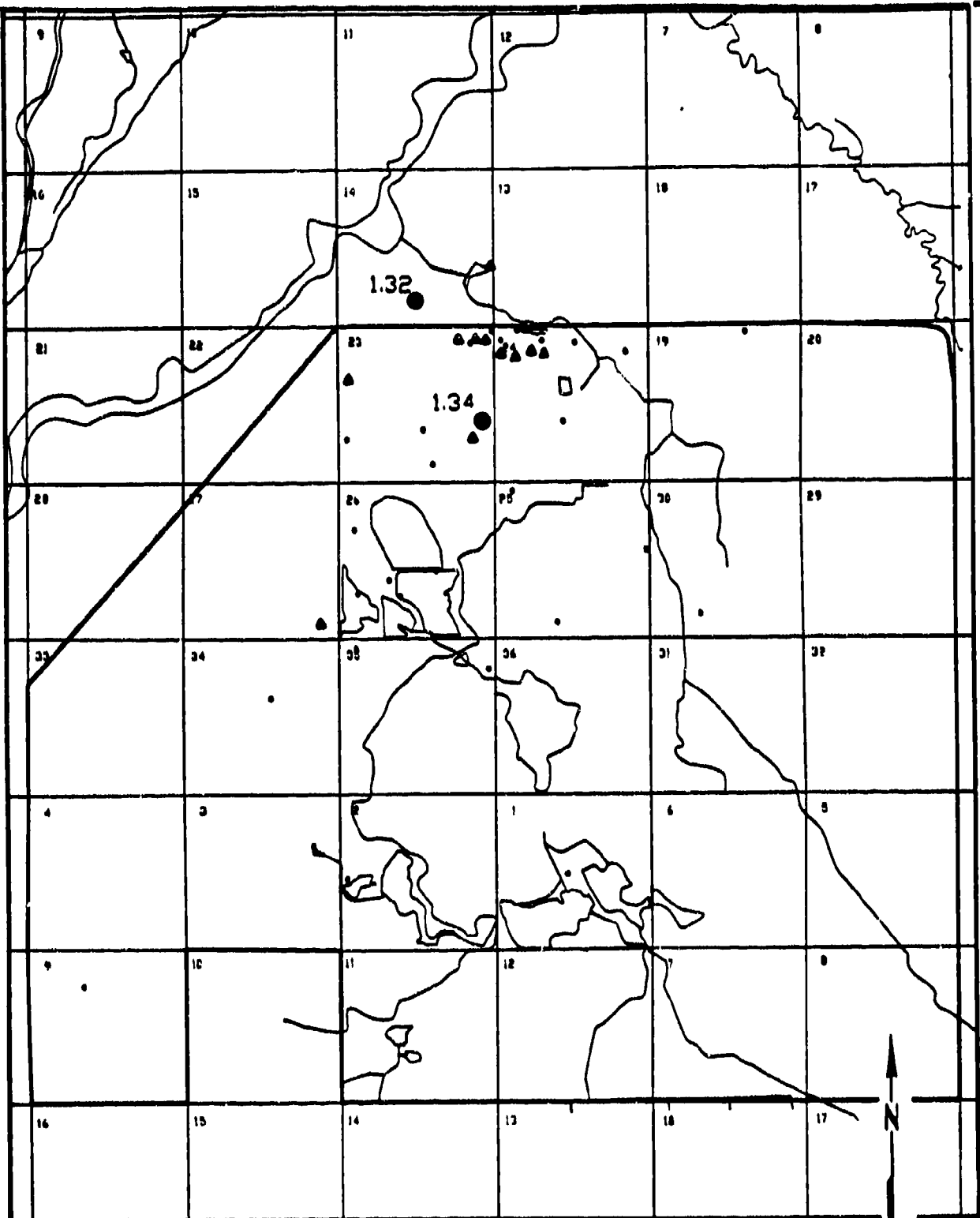
Figure D-85

ETHYLBENZENE DETECTIONS DENVER ZONE VC/VCE 3RD QUARTER FY 1987

SOURCE: Munter/ESE, 1988

Prepared for:

U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l.

- ▲ Unconfined Denver Formation Well 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-88

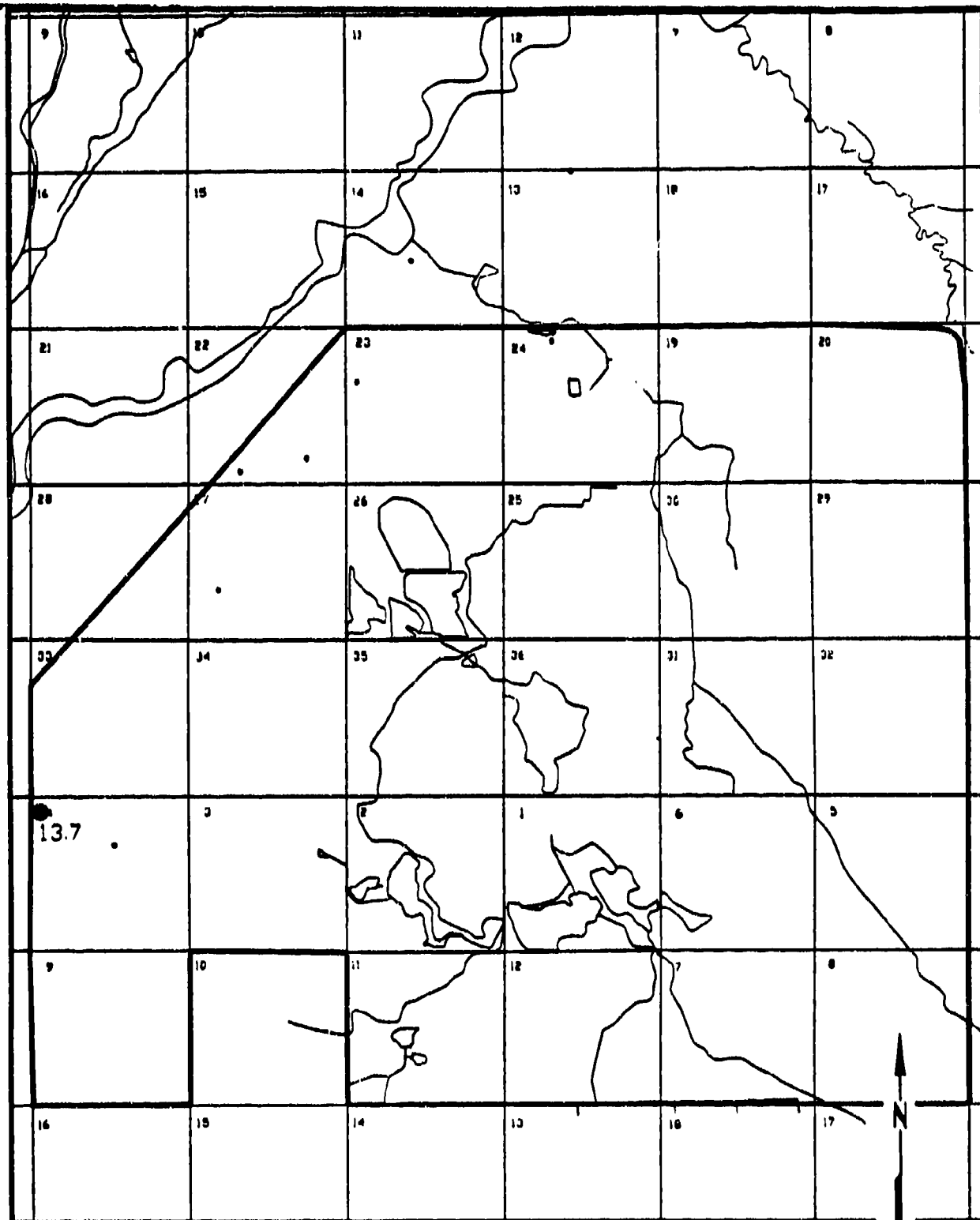
**ETHYLBENZENE DETECTIONS DENVER
ZONE 2 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

Prepared for:

**U.S. Army Program Manager's Office
For Rocky Mountain Arsenal**

Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

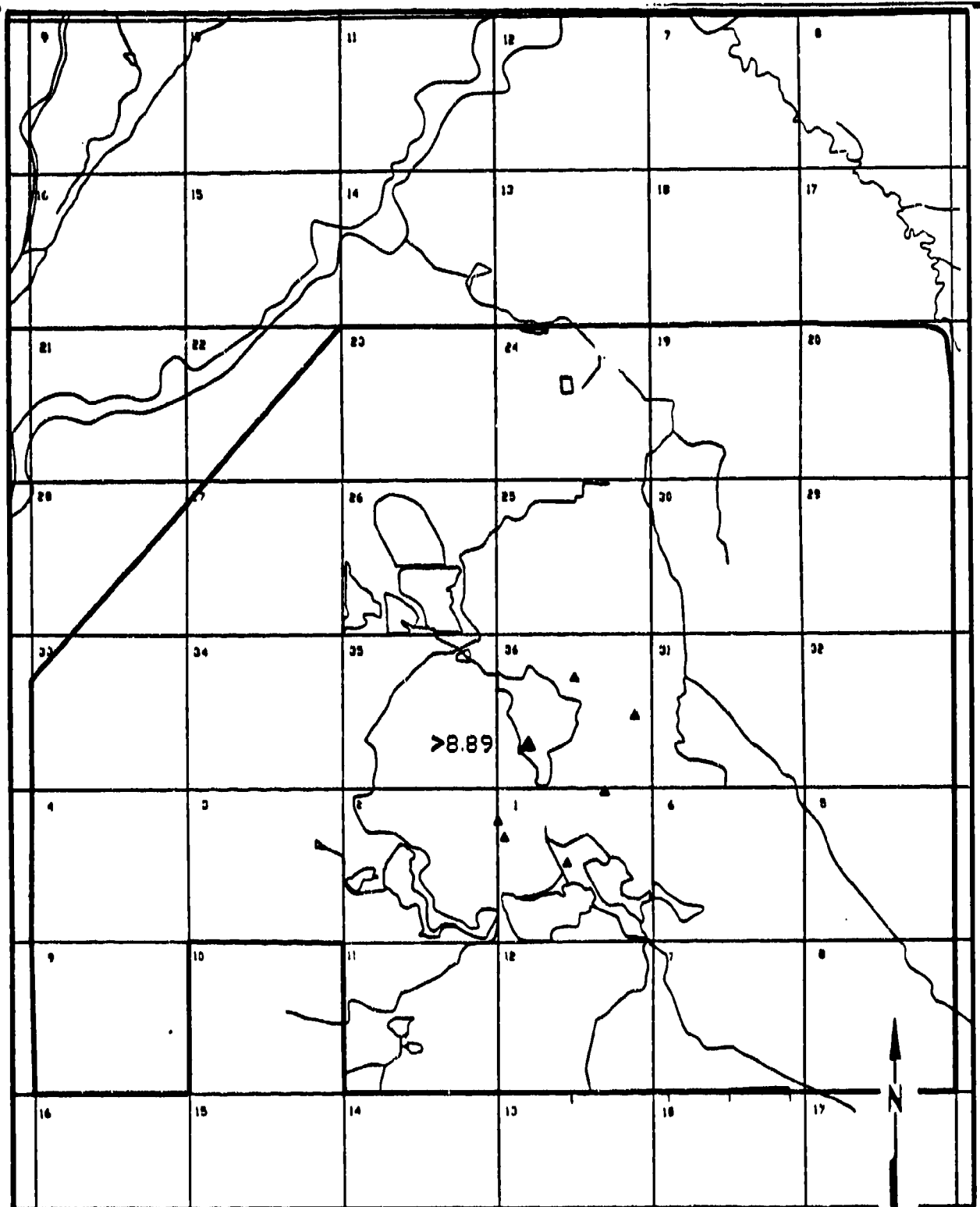
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-87
ETHYLBENZENE DETECTIONS DENVER ZONE
5 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

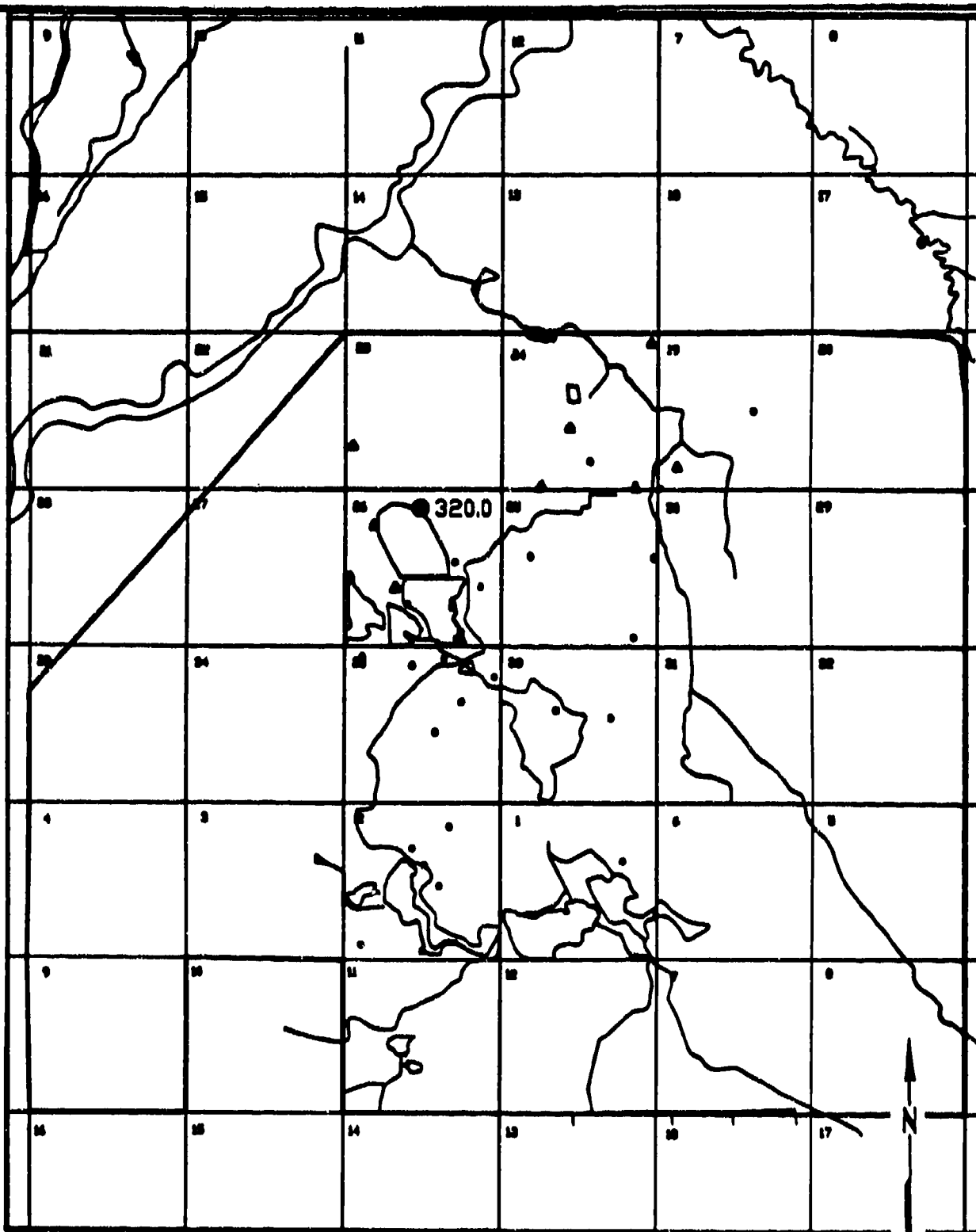
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-88
TOLUENE DETECTIONS DENVER ZONE
VC/VCE 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00 Denver Detection, Units in ug/l.

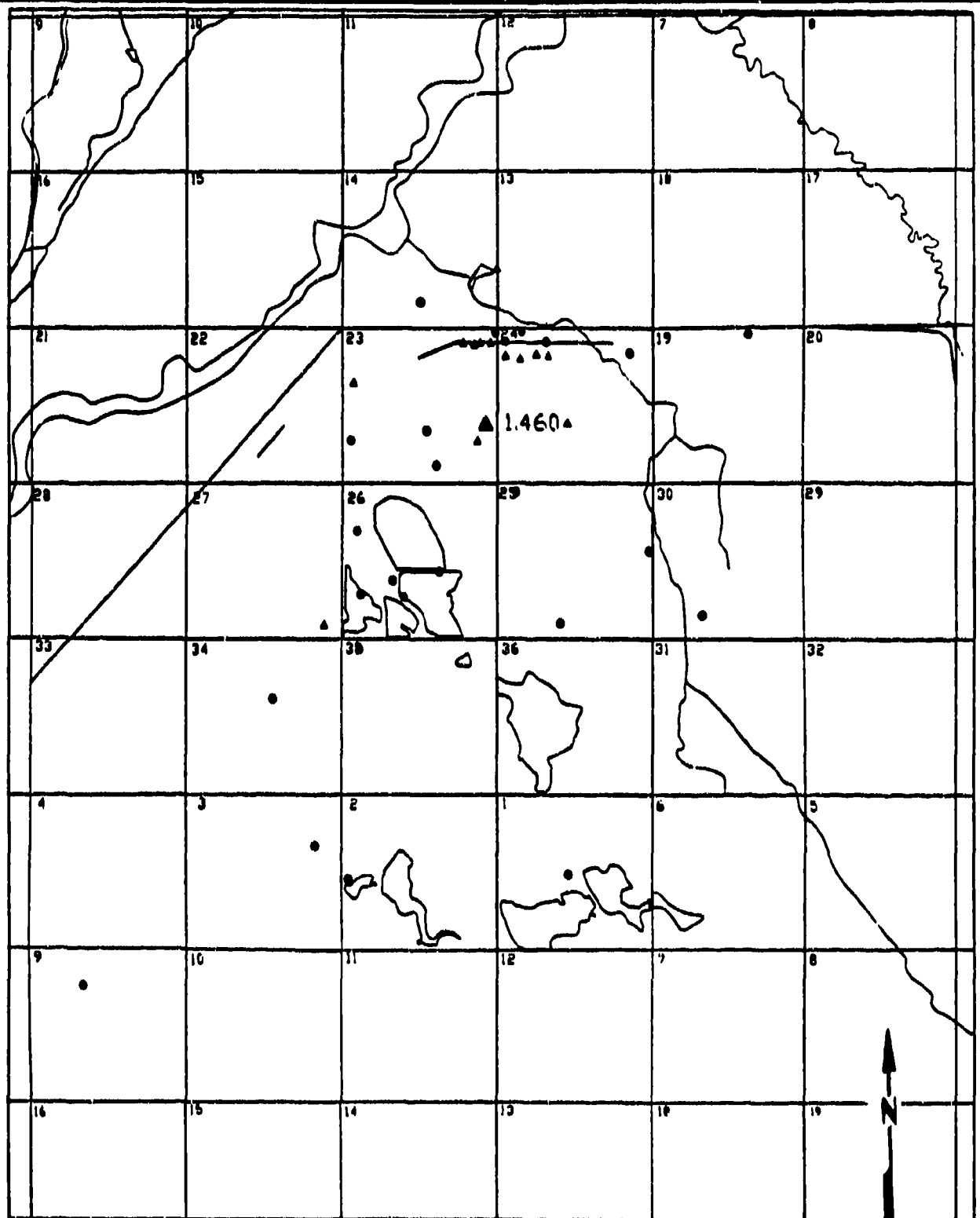
- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-89
TOLUENE DETECTIONS DENVER ZONE 1
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- Units in ug/l

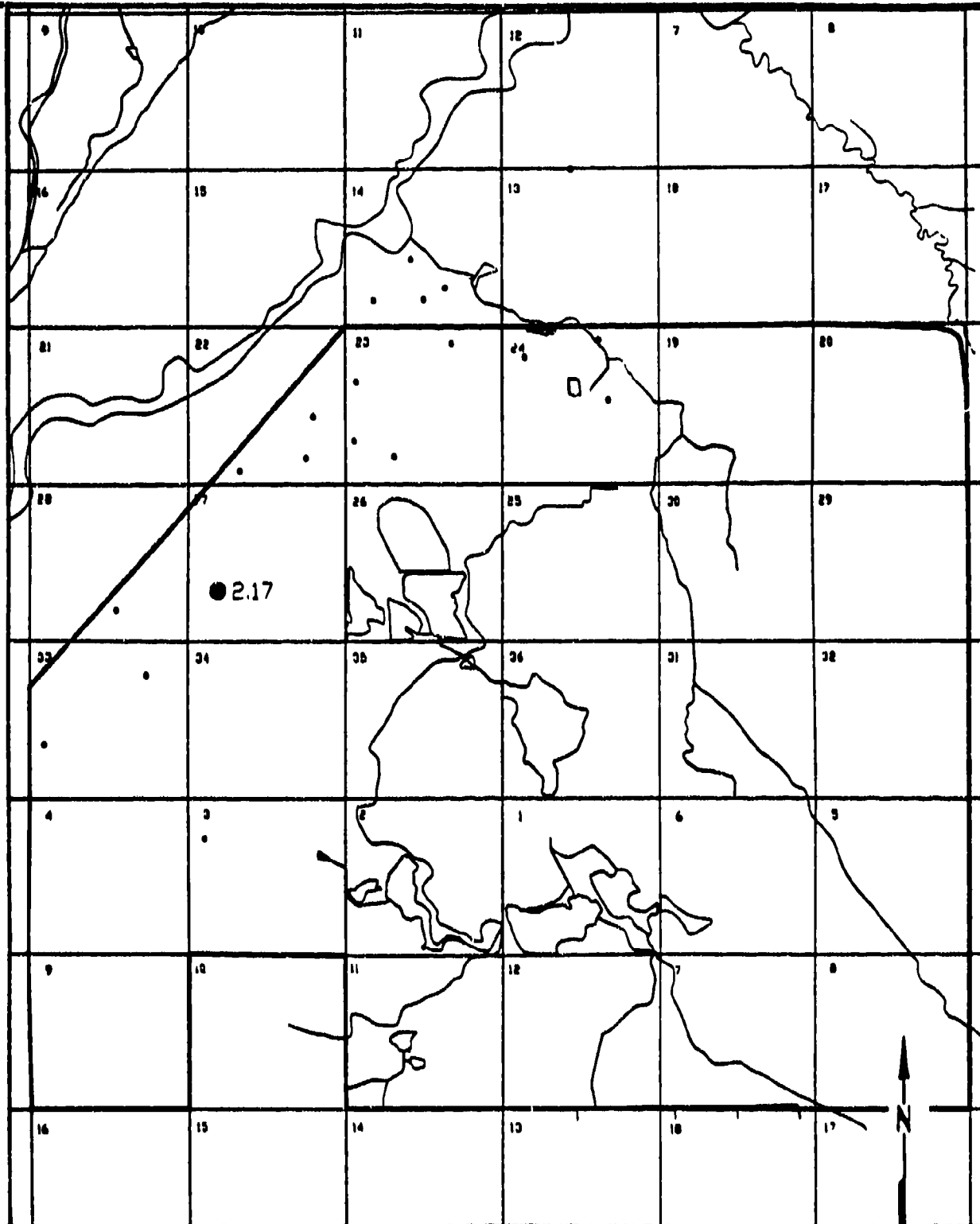
0 6000
Scale in Feet

Figure D-90

**TOLUENE DETECTIONS DENVER ZONE
2, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**



EXPLANATION

- Denver Well
- 172.00
Denver Detection, Units in ug/l.

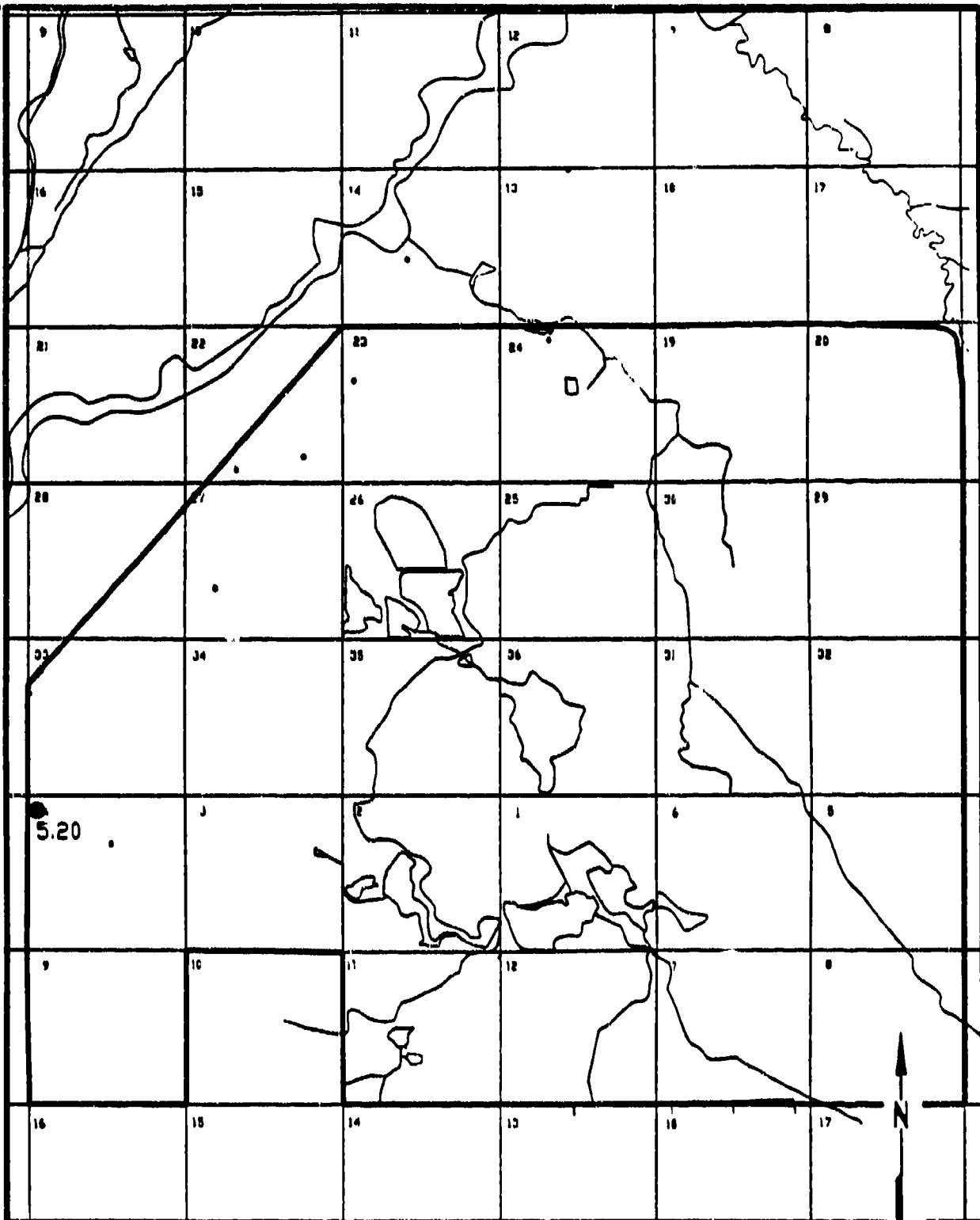
- ▲ Unconfined Denver Formation Well
10.0
- ▲ Unconfined Denver Formation Detection,
Units in ug/l.

0 5000
Scale in Feet

Figure D-91
TOLUENE DETECTIONS DENVER ZONE 4
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

• Denver Well

● 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

▲ 10.0

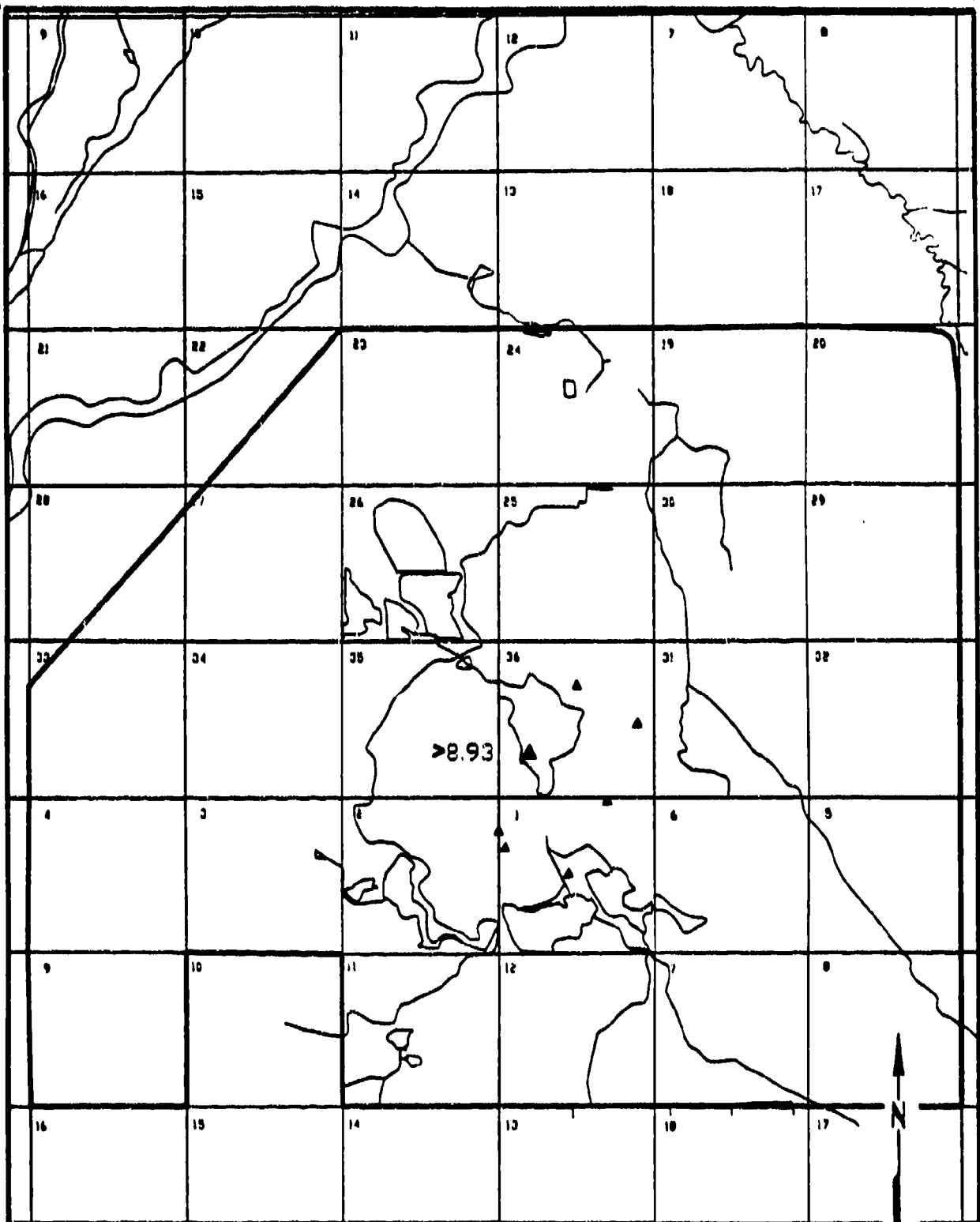
▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale In Feet

Figure D-92
TOLUENE DETECTIONS DENVER ZONE 5
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

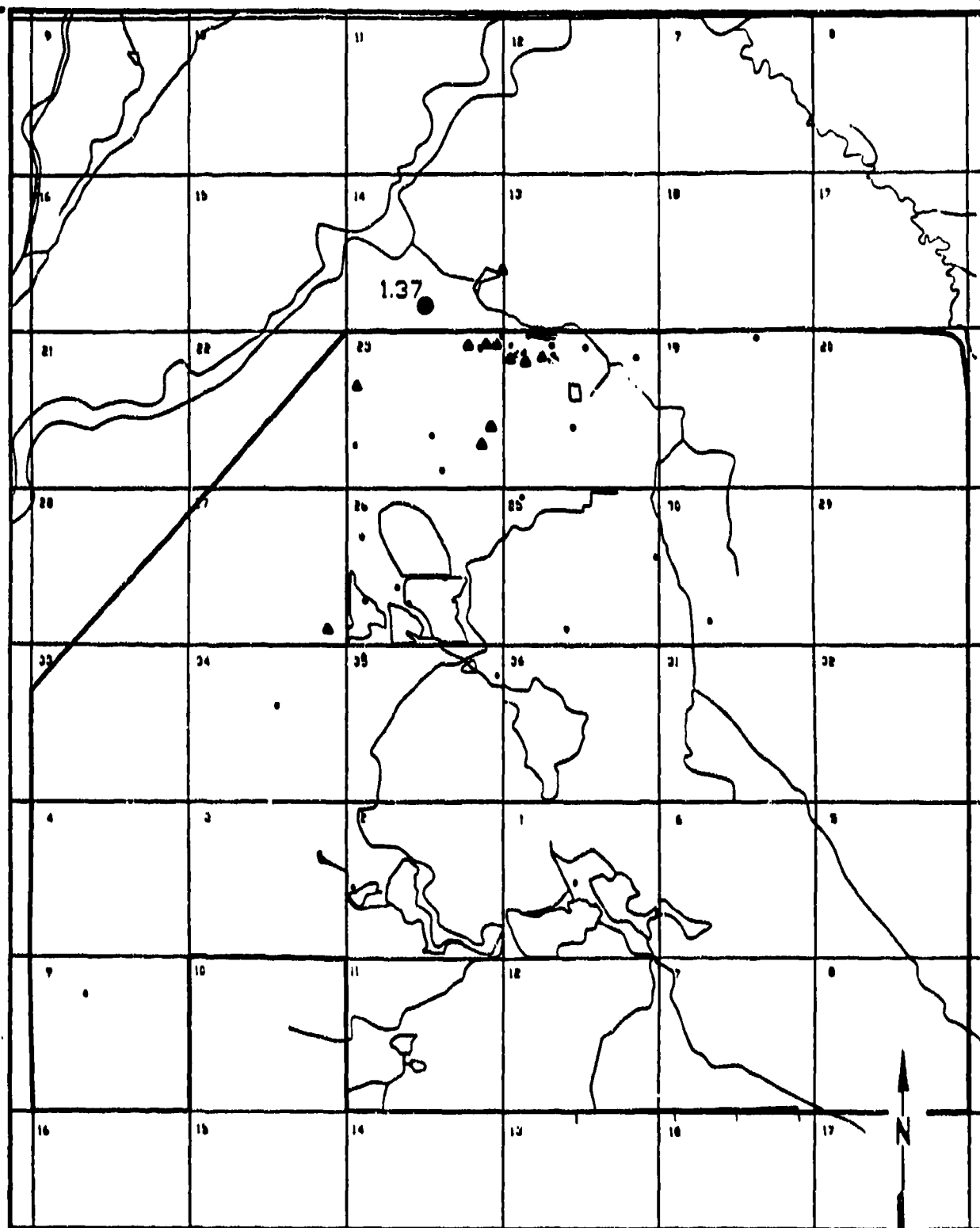
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-93
M-XYLENE DETECTIONS DENVER ZONE
VC/VCE 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

• Denver Well

● 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

▲ 10.0

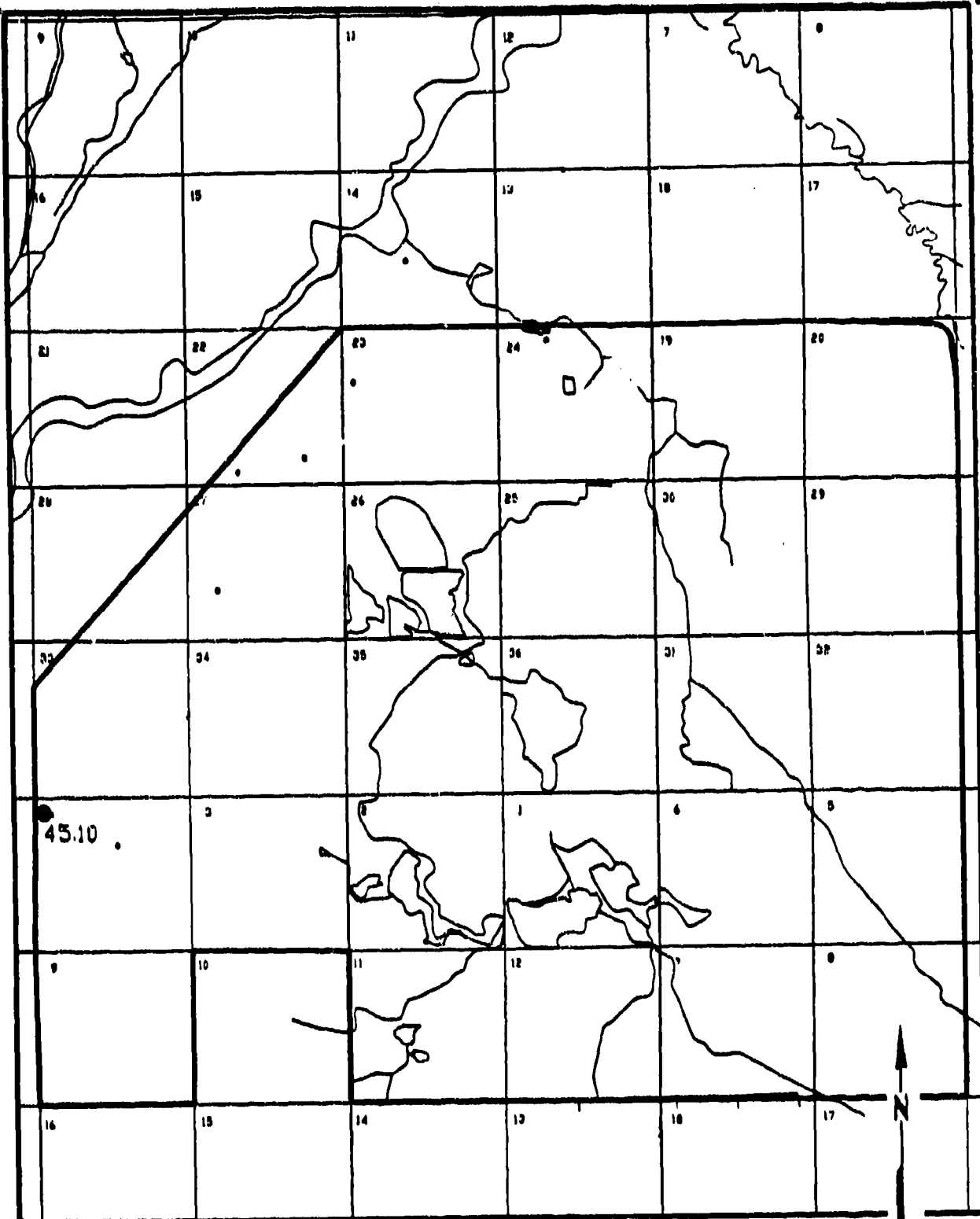
▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-94
M-XYLENE DETECTIONS DENVER ZONE 2
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

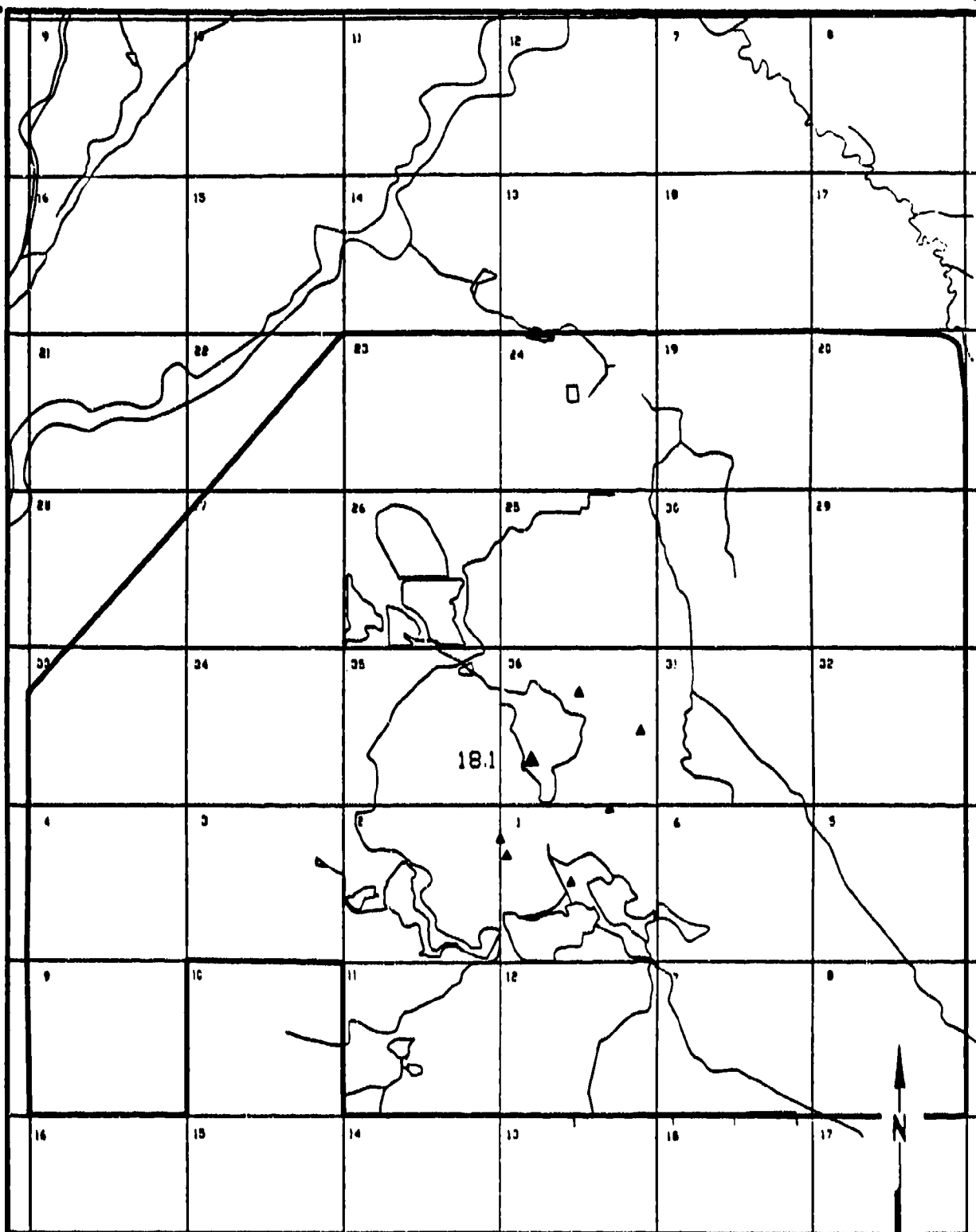
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 8000
Scale in Feet

Figure D-95
M-XYLENE DETECTIONS DENVER ZONE 5
3RD QUARTER FY 1987

SOURCE: Hunter/ESB, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l.

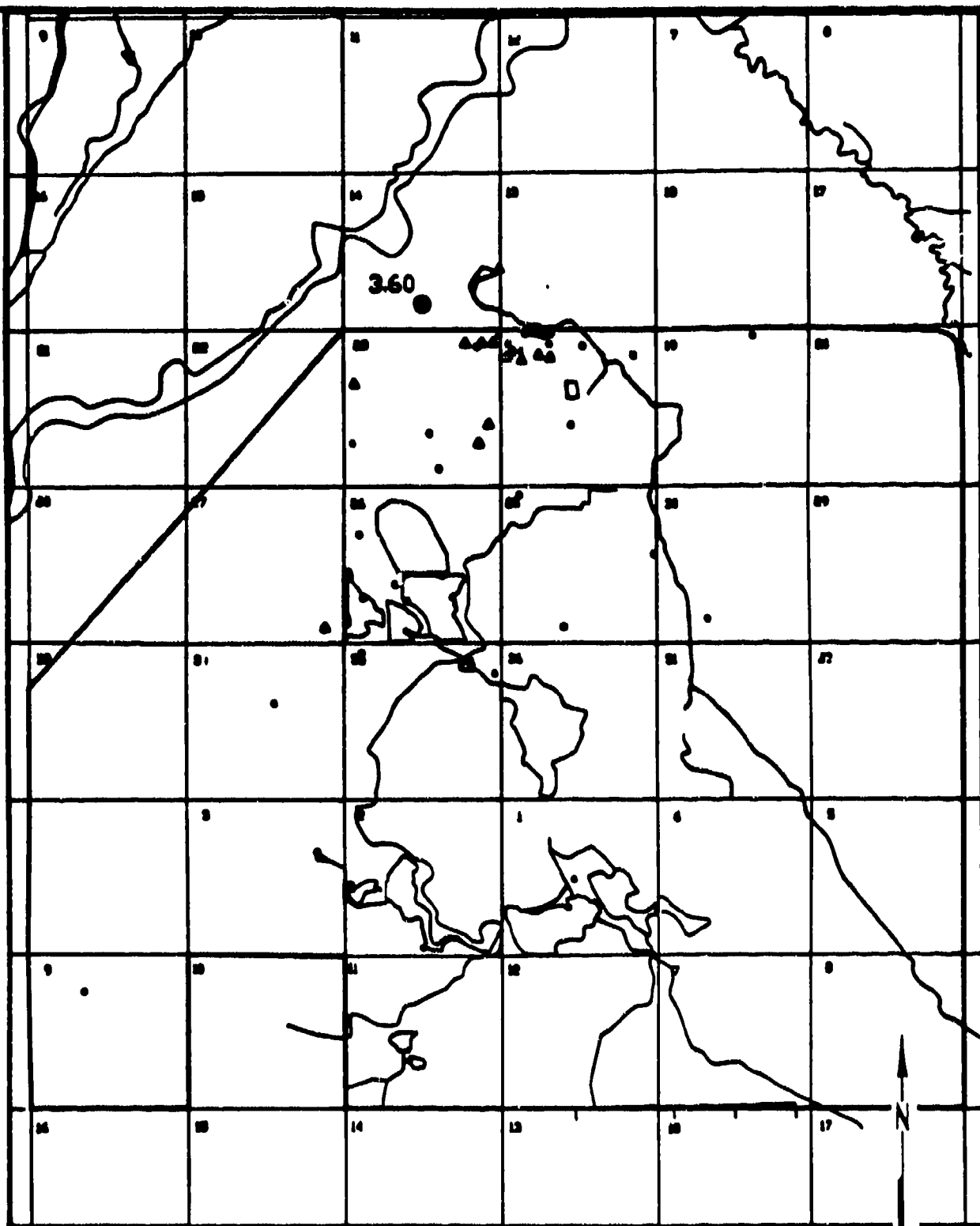
- ▲ Unconfined Denver Formation Well 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-98
O,P-XYLENE DETECTIONS DENVER ZONE
VCVCE 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l.

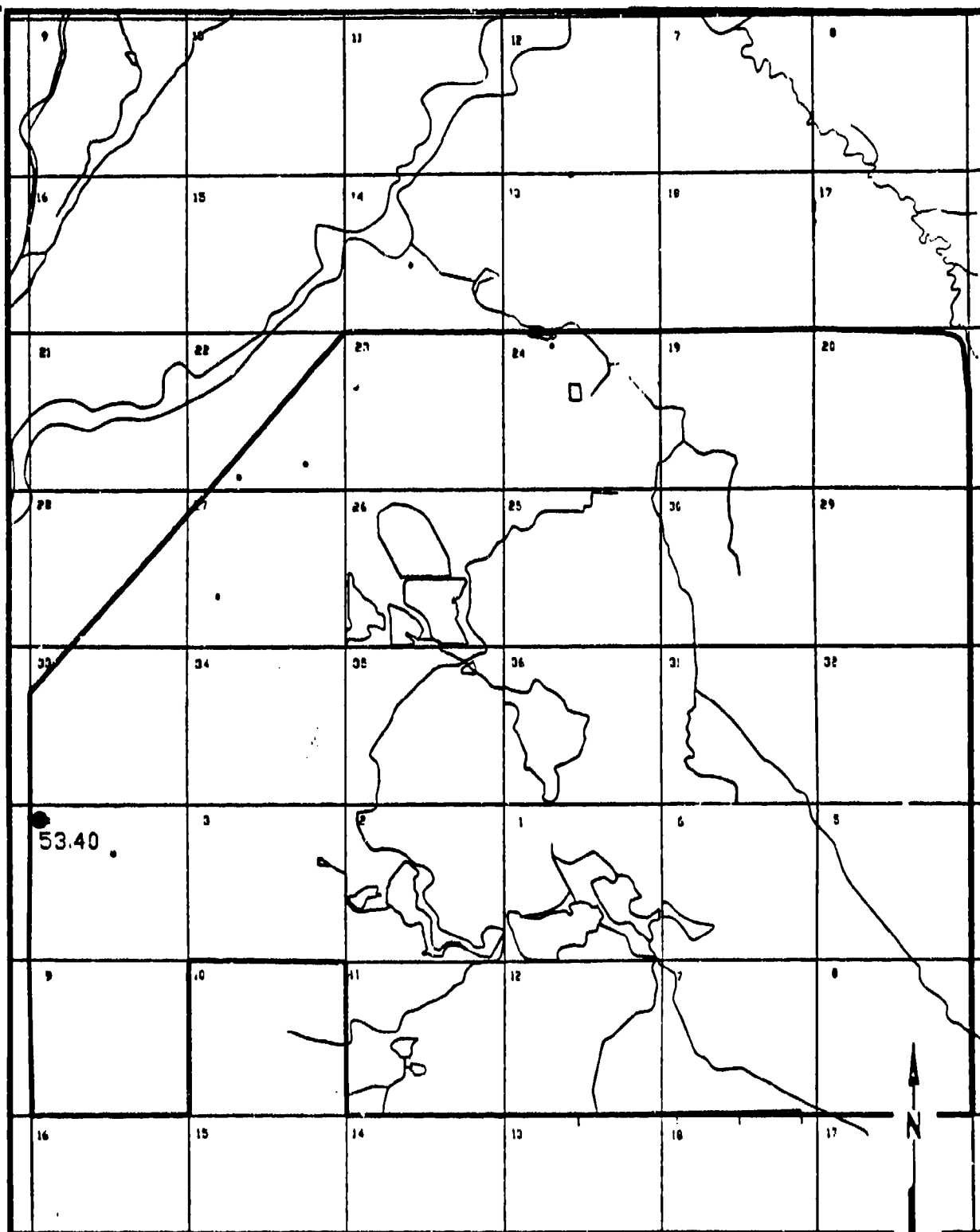
- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-97.
O,P-XYLENE DETECTIONS DENVER ZONE 2
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1985

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

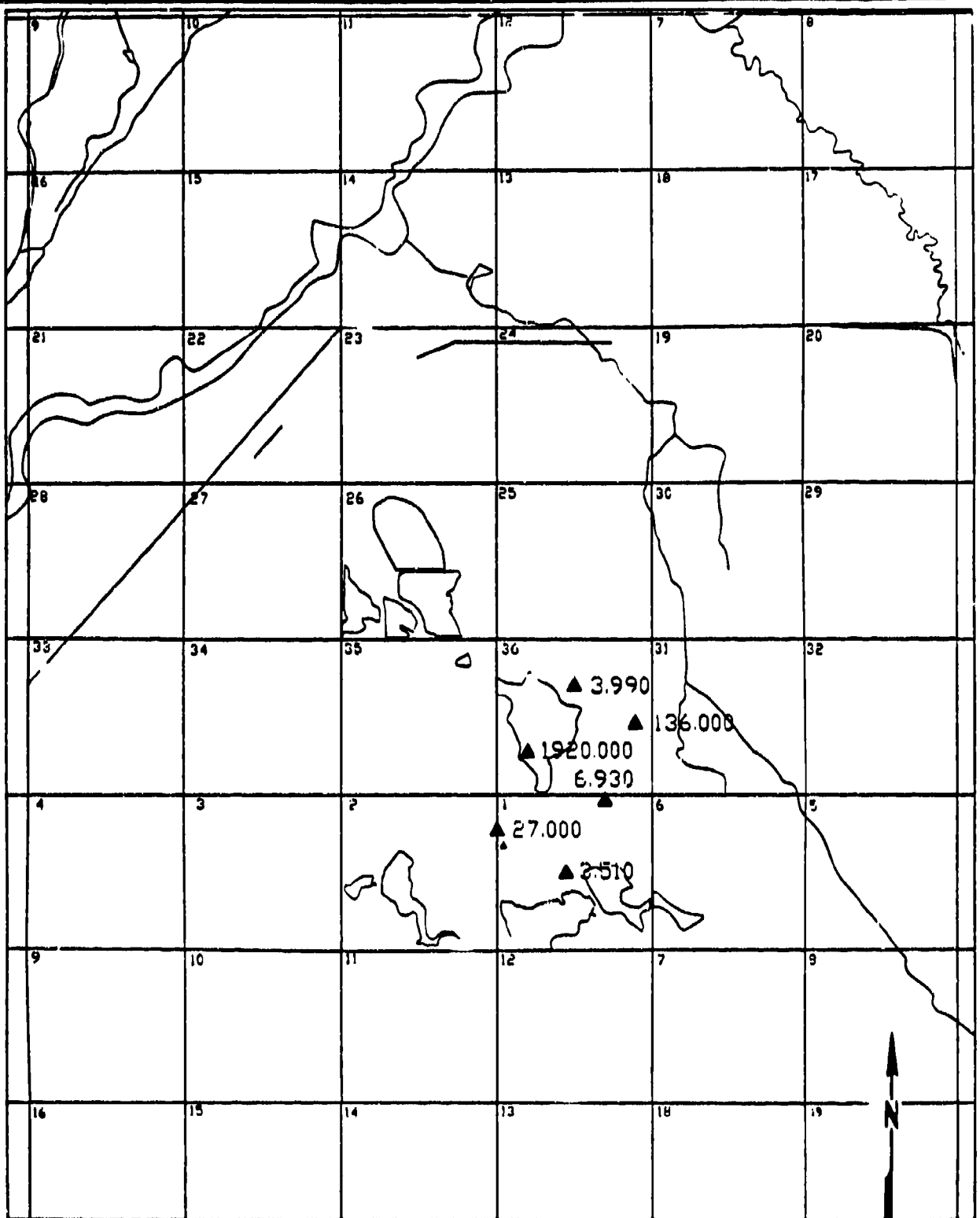
0 5000

Scale in Feet

Figure D-98
O,P-XYLENE DETECTIONS DENVER ZONE 5
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- Units in ug/l

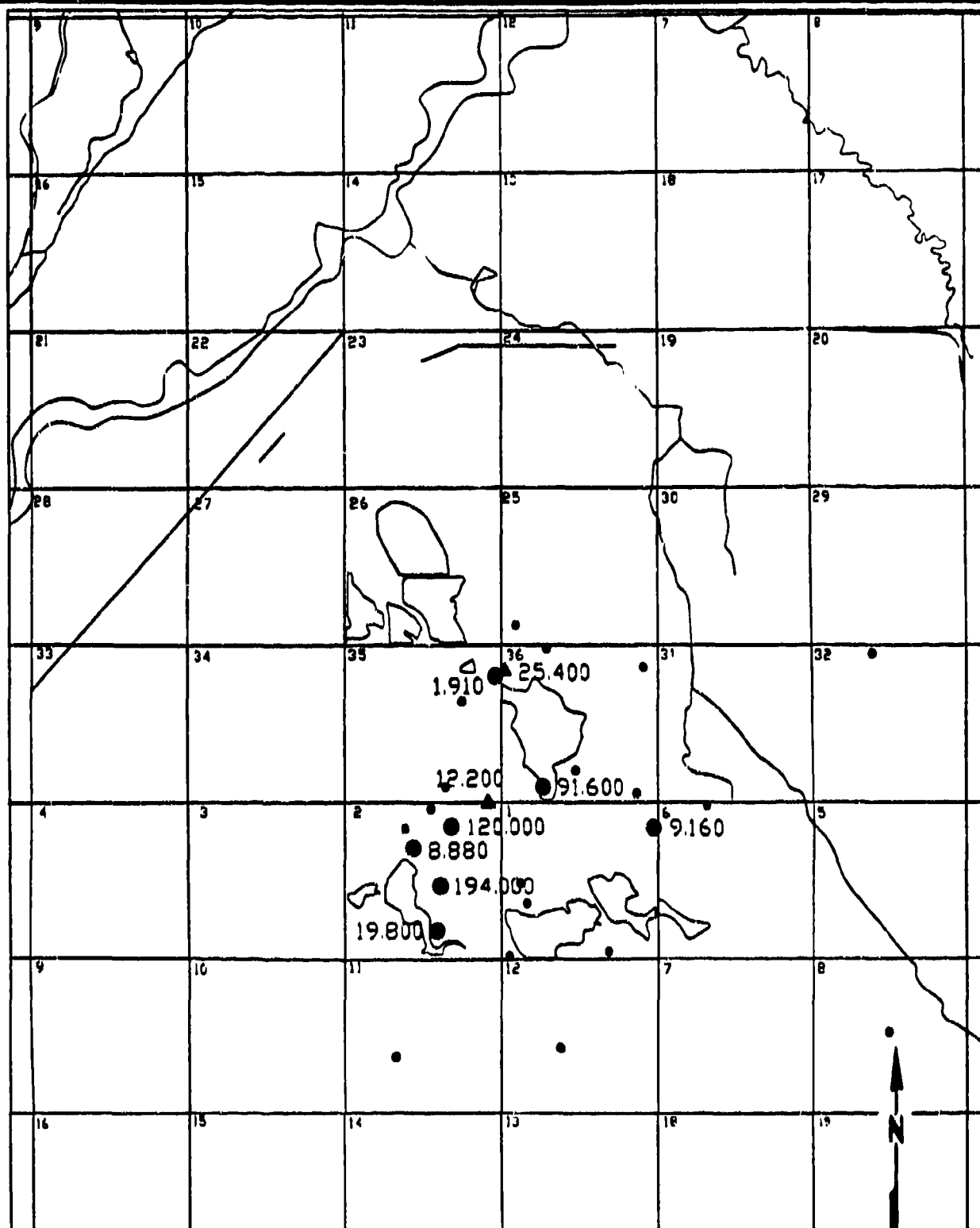
0 5000
Scale in Feet

Figure D-99

CHLOROFORM DETECTIONS DENVER
ZONE VC/VCE, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well 10.0
- ▲ Unconfined Denver Formation Detection Units in ug/l

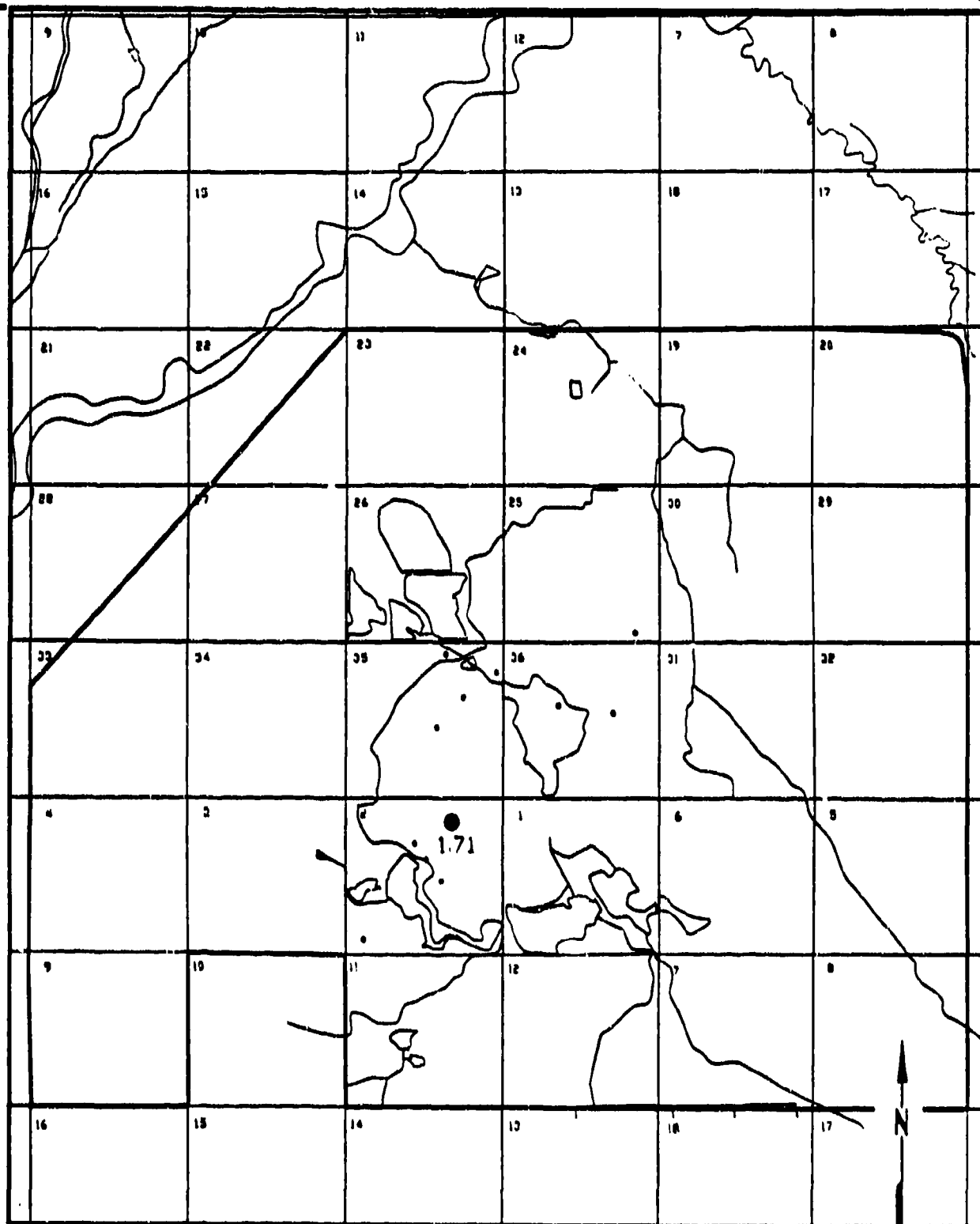
0 8000
Scale in Feet

Figure D-100

CHLOROFORM DETECTIONS DENVER
ZONE A, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

• Denver Well

● 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

▲ 10.0

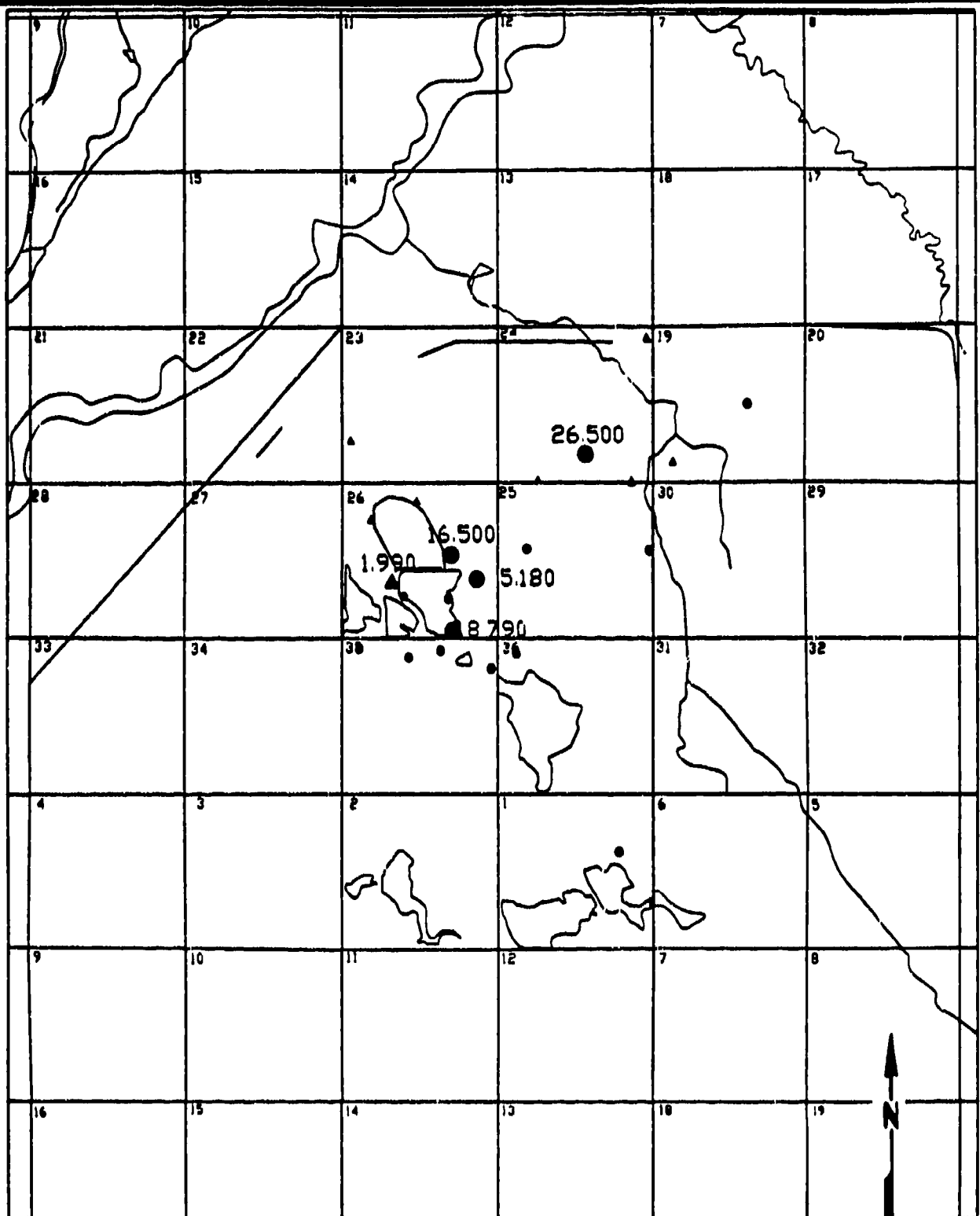
▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-101
CHLOROFORM DETECTIONS DENVER
ZONE 1U 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- Units in ug/l

0 5000
Scale in Feet

Figure D-102

**CHLOROFORM DETECTIONS DENVER
ZONE 1, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**

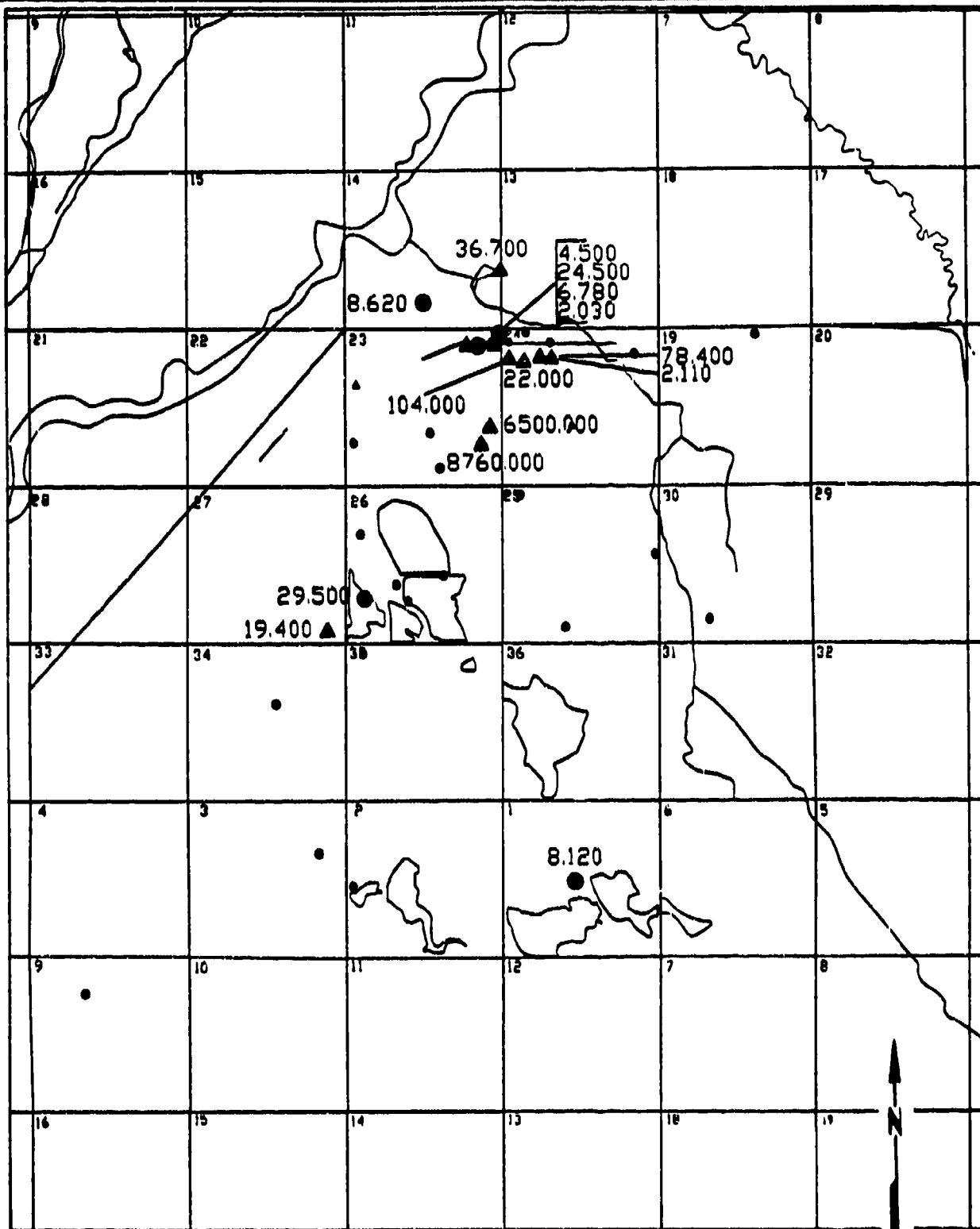
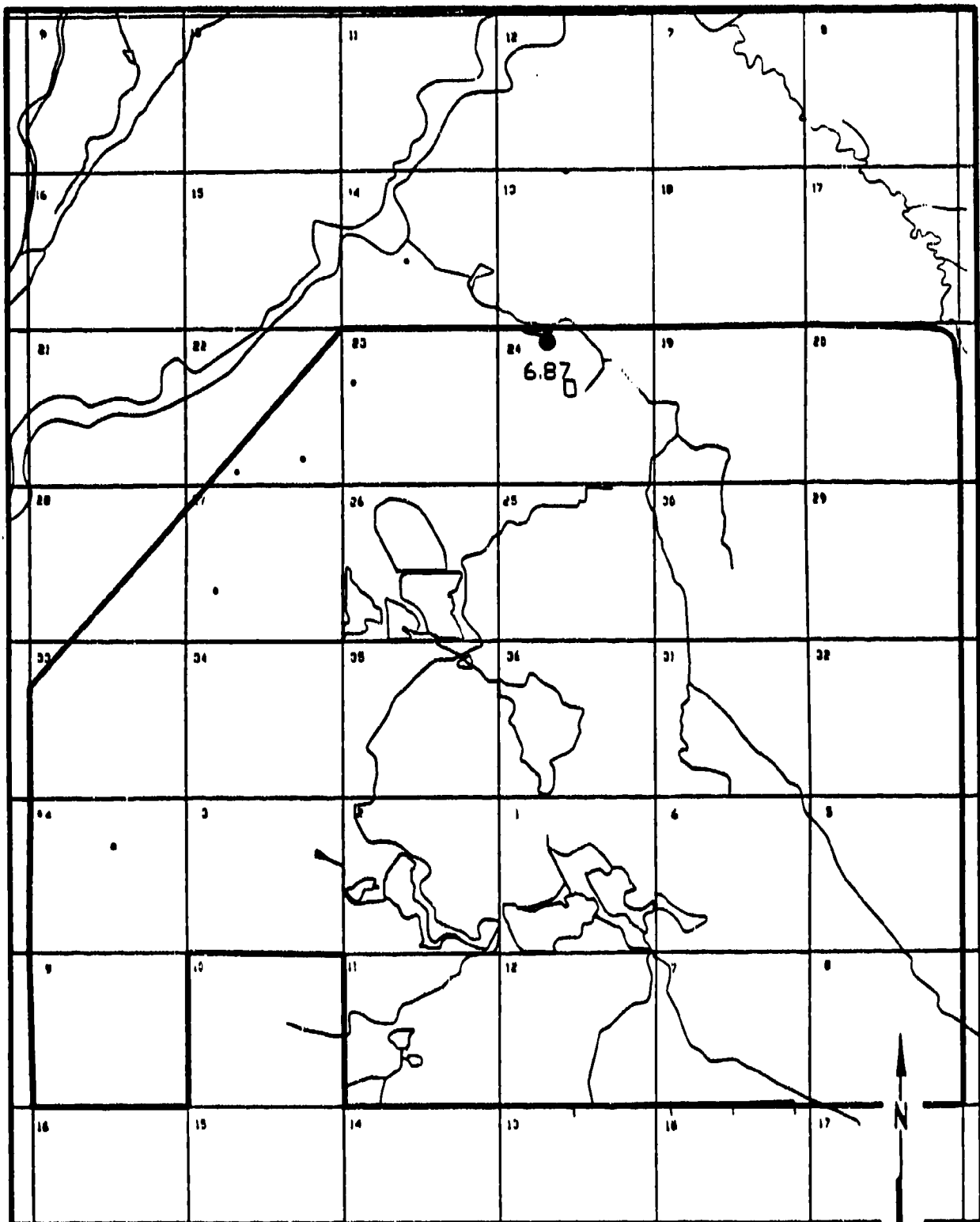


Figure D-103

**CHLOROFORM DETECTIONS DENVER
ZONE 2, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-104
CHLOROFORM DETECTIONS DENVER
ZONE 5 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

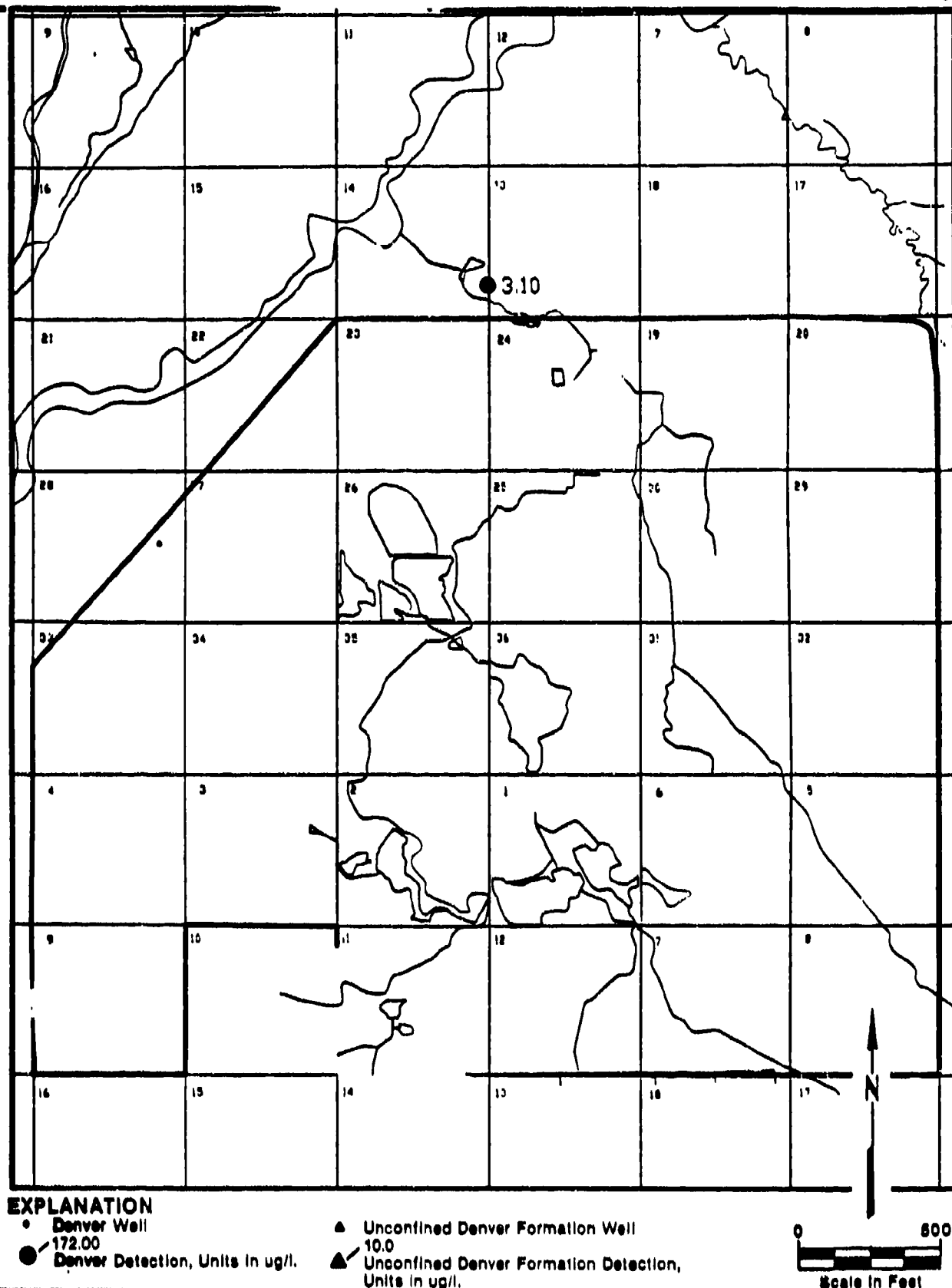
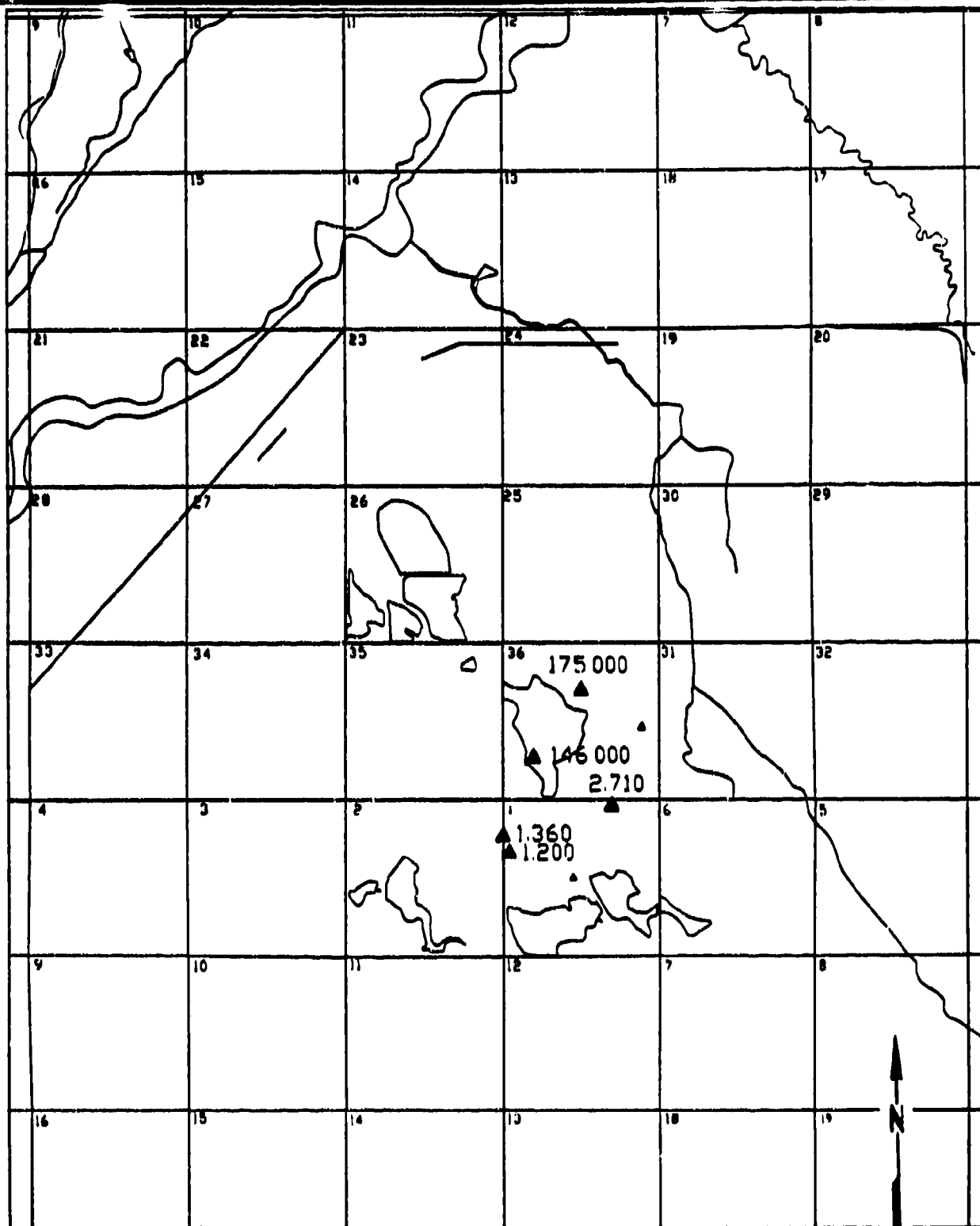


Figure D-105
CHLOROFORM DETECTIONS DENVER
ZONE 6 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
 U.S. Army Program Manager's Office
 For Rocky Mountain Arsenal
 Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- ▲ Units in ug/l

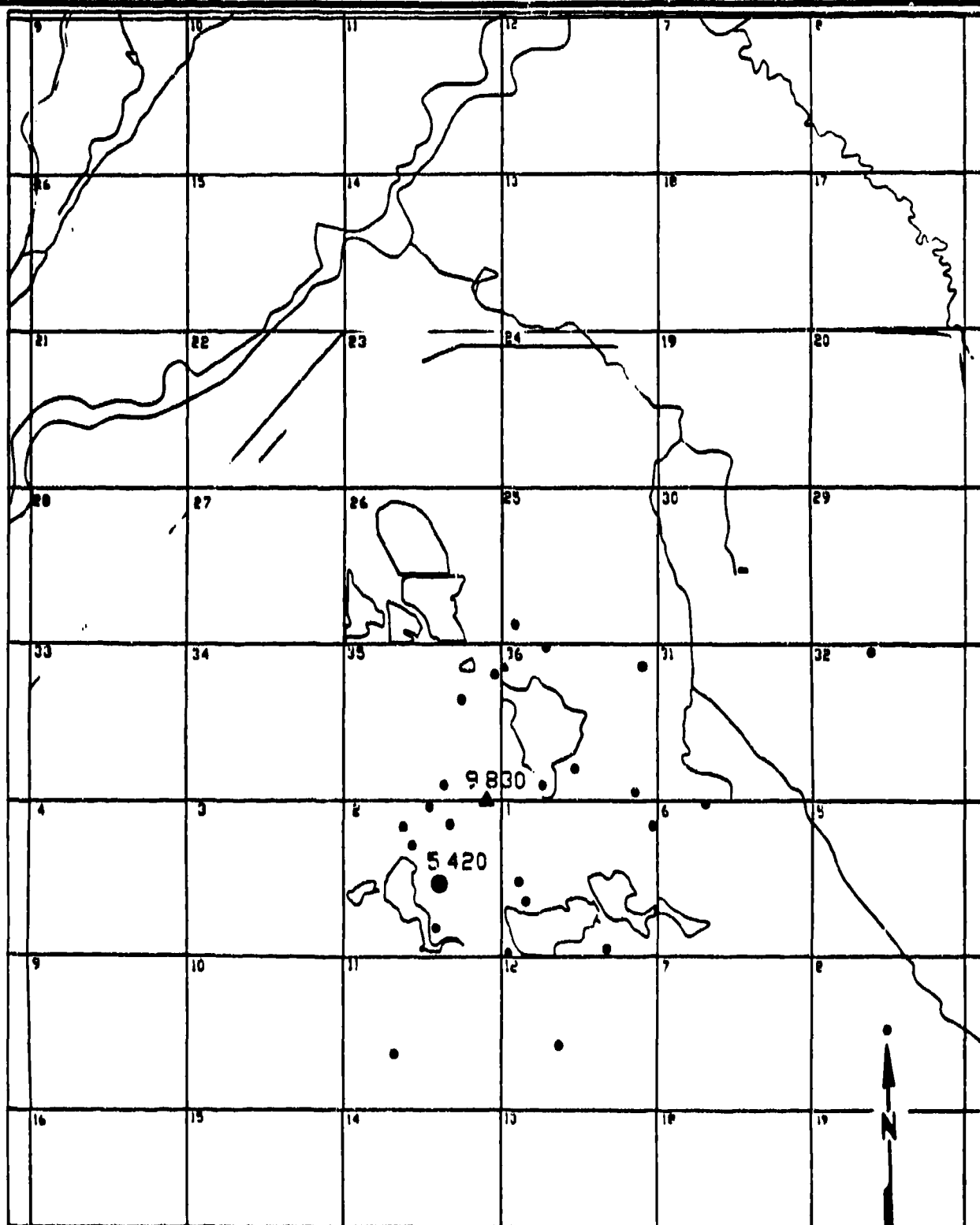
0 8000
Scale in Feet

Figure D-106

TRICHLOROETHENE DETECTIONS DENVER
ZONE VCVCE, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- Unconfined Denver Formation Well
- 10.0
- Unconfined Denver Formation Detection
- Units in ug/l

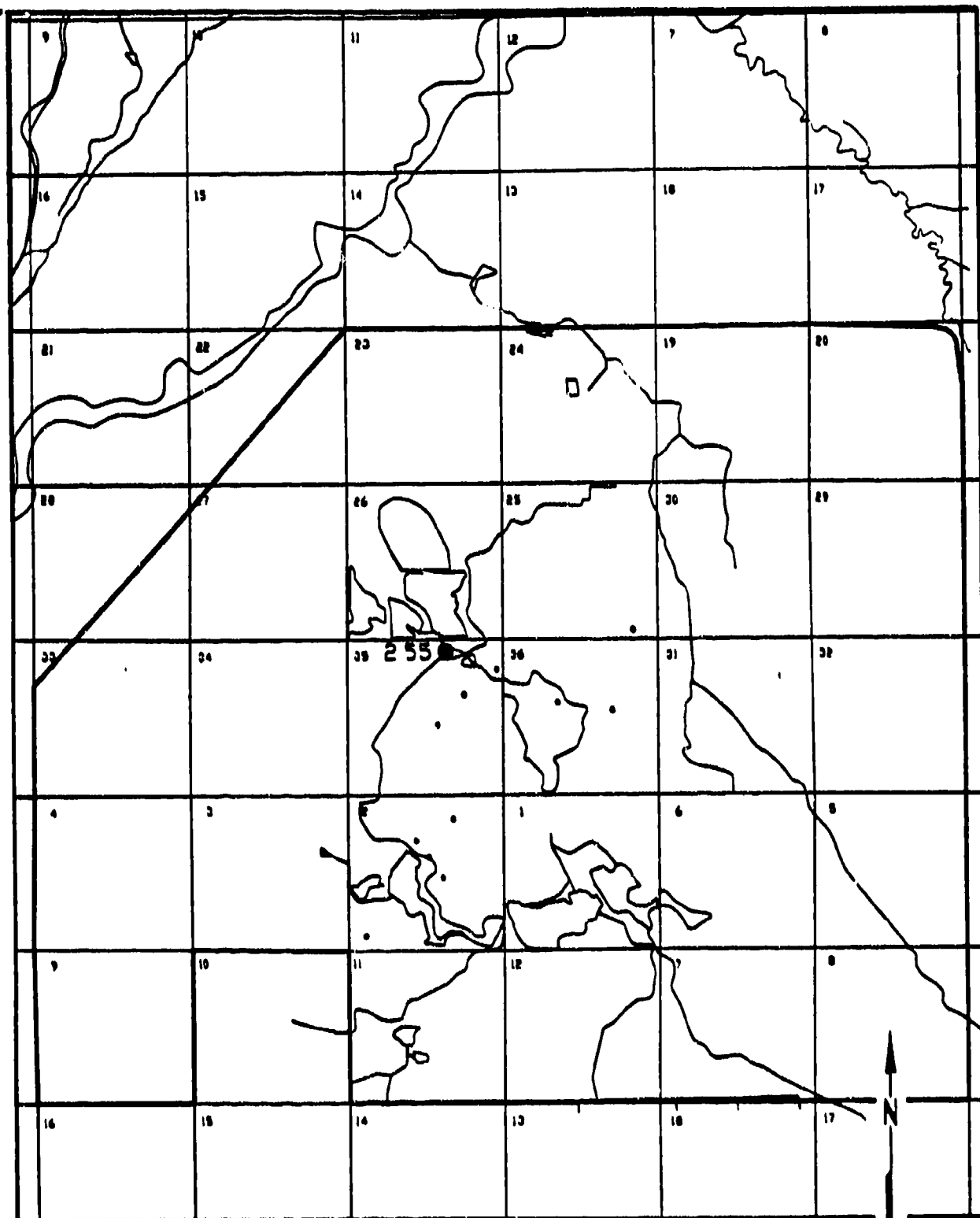
0 8000
Scale in Feet

Figure D-107

**TRICHLOROETHENE DETECTIONS DENVER
ZONE A, 3RD QUARTER, FY 1987**

SOURCE: Hunter/USE, 1988

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**

**EXPLANATION**

• Denver Well

● 172.00

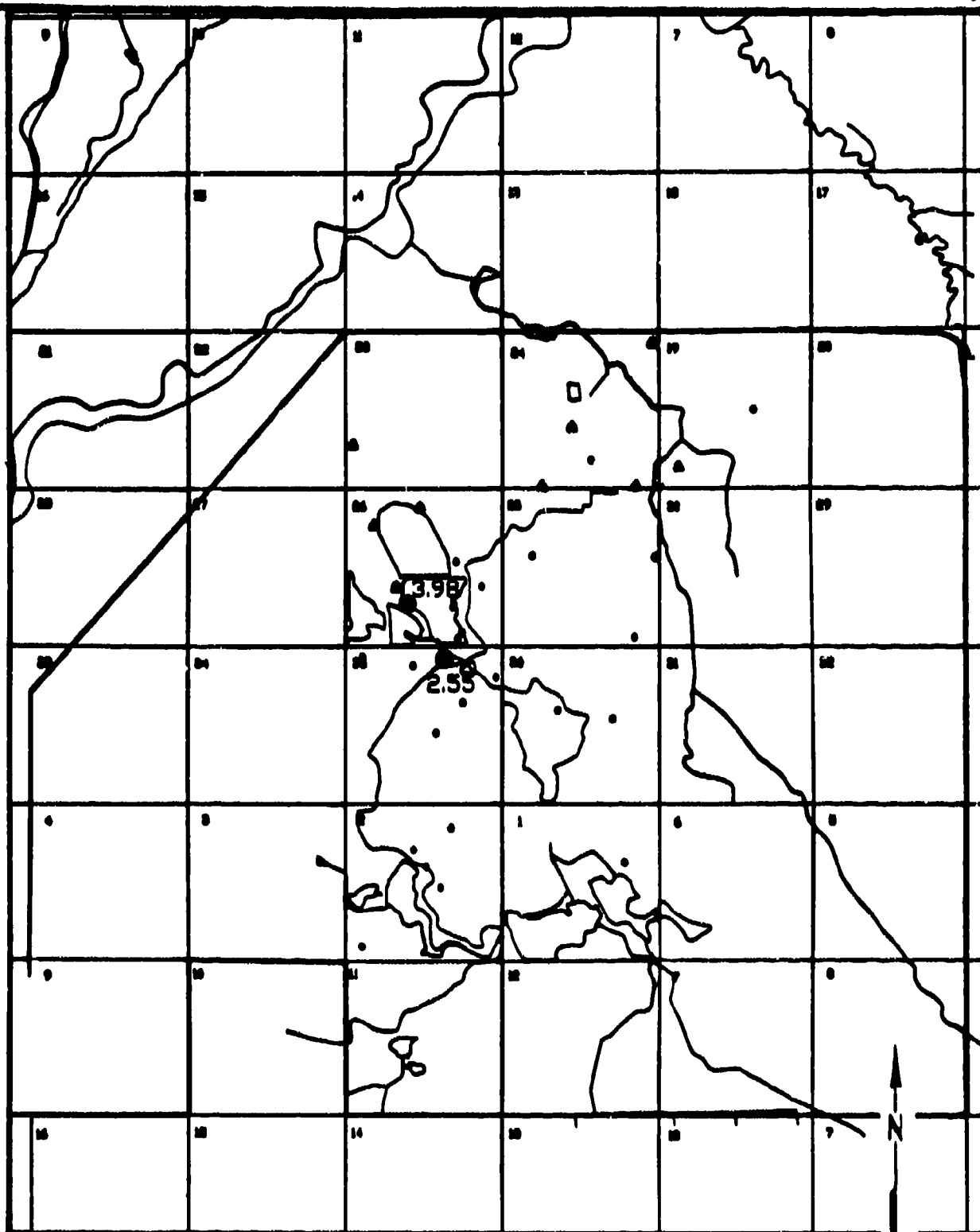
● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well
10.0▲ Unconfined Denver Formation Detection,
Units in ug/l.0 8000
Scale in Feet

Figure D-108
TRICHLOROETHENE DETECTIONS
DENVER ZONE 1U 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

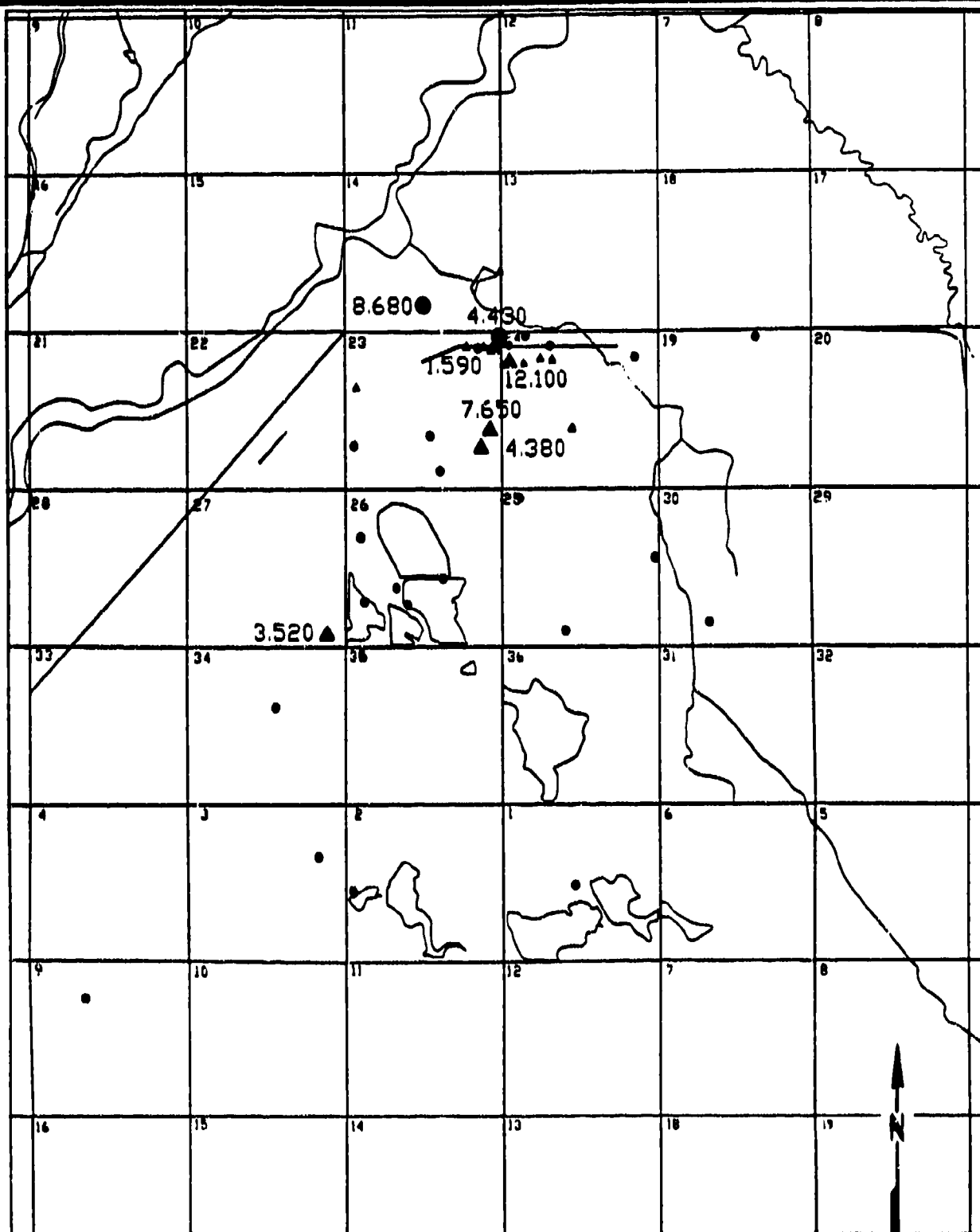
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 6000
Scale in Feet

Figure D-109
TRICHLOROETHENE DETECTIONS DENVER
ZONE 1 3RD QUARTER, FY 1987

SOURCE: Hunter/EBE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- ▲ Units in ug/l

0 8000
Scale in Feet

Figure D-110

TRICHLOROETHENE DETECTIONS DENVER
ZONE 2, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

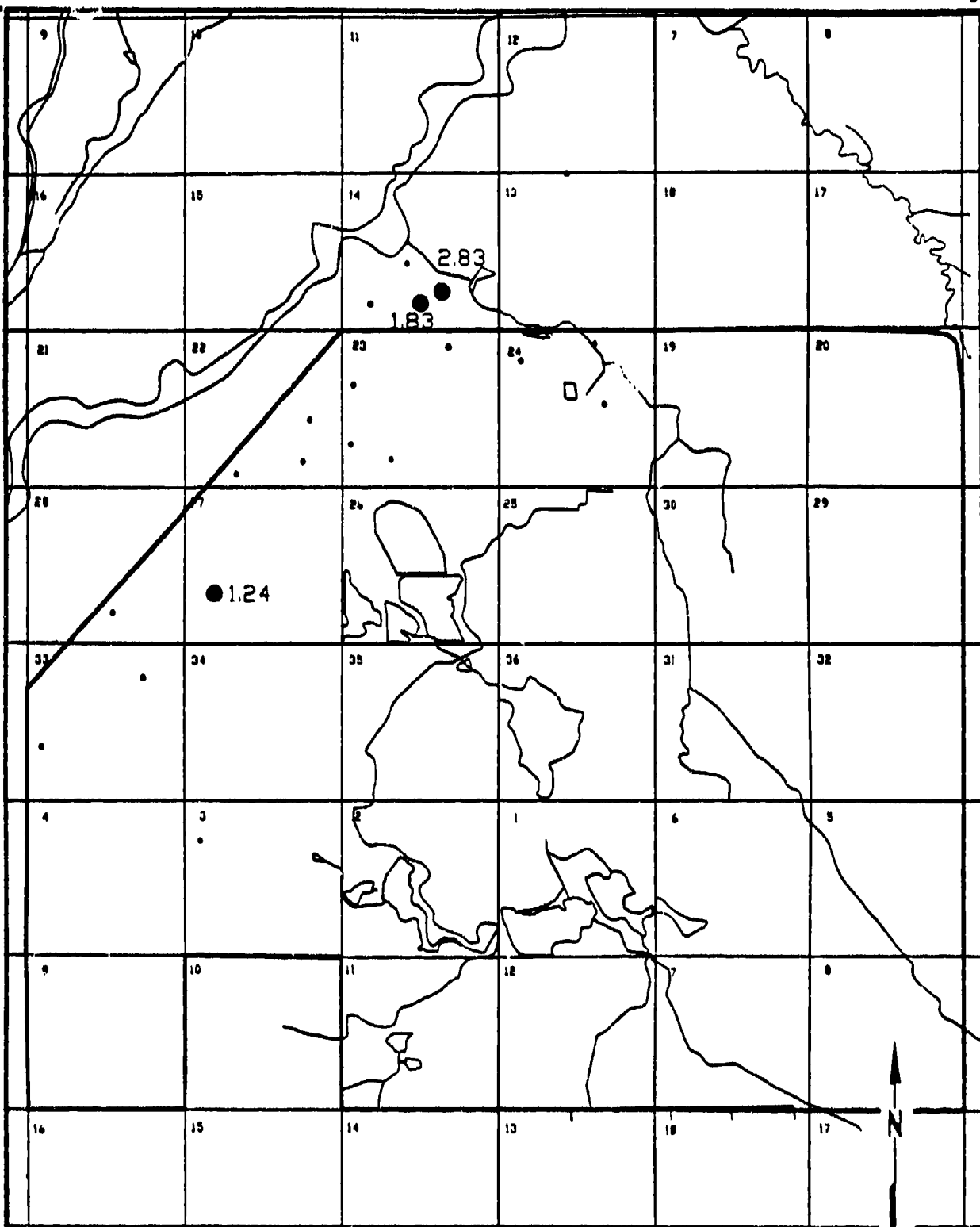
- Denver Well
- 172.00
- Denver Detection, Units In ug/l.

▲ Unconfined Denver Formation Well
 10.0
 ▲/ Unconfined Denver Formation Detection,
 Units in ug/l.



SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

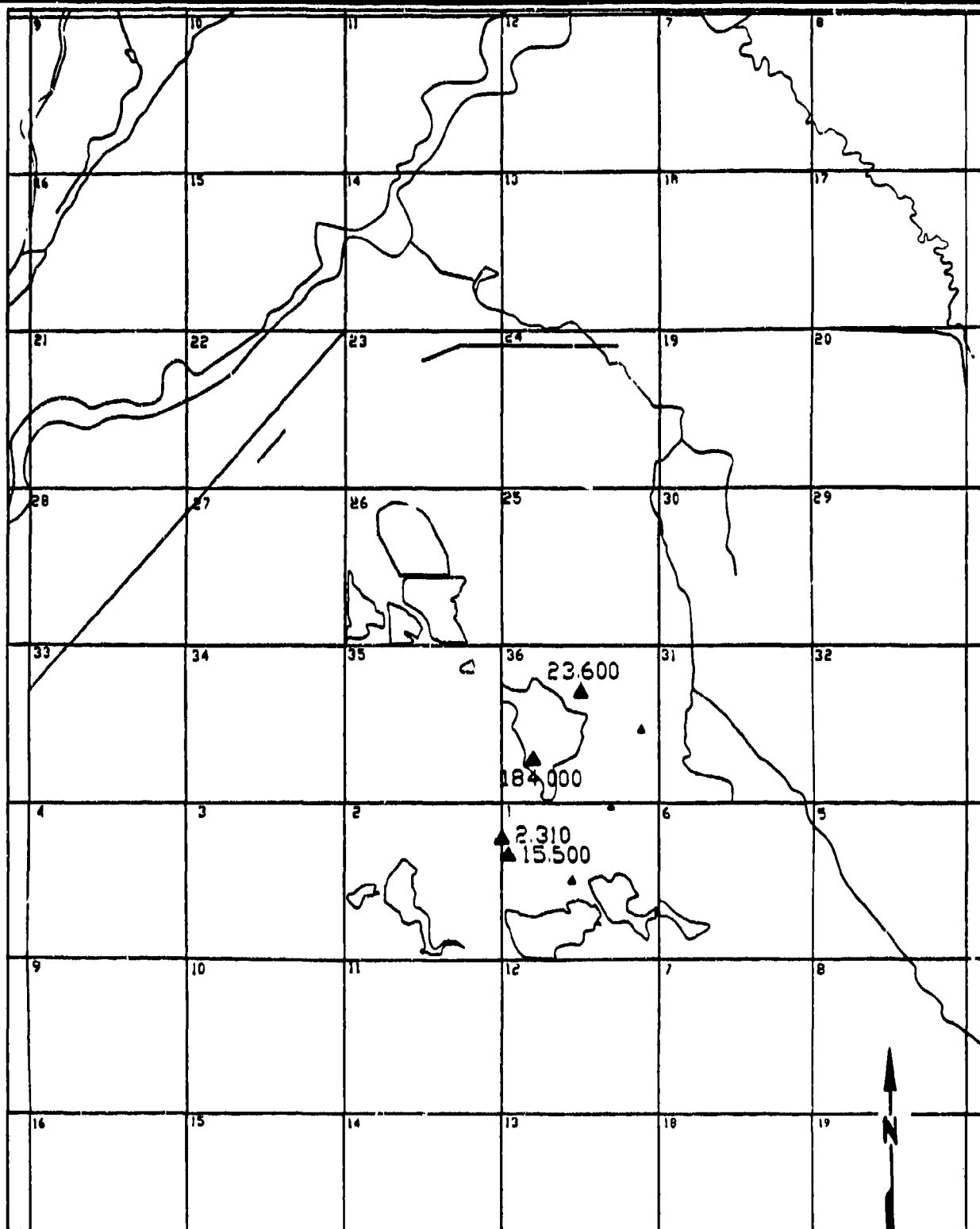
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-112
TRICHLOROETHENE DETECTIONS DENVER
ZONE 4 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 90.0
- ▲ Unconfined Denver Formation Detection
- ▲ Units in ug/l

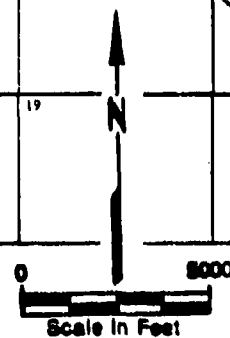
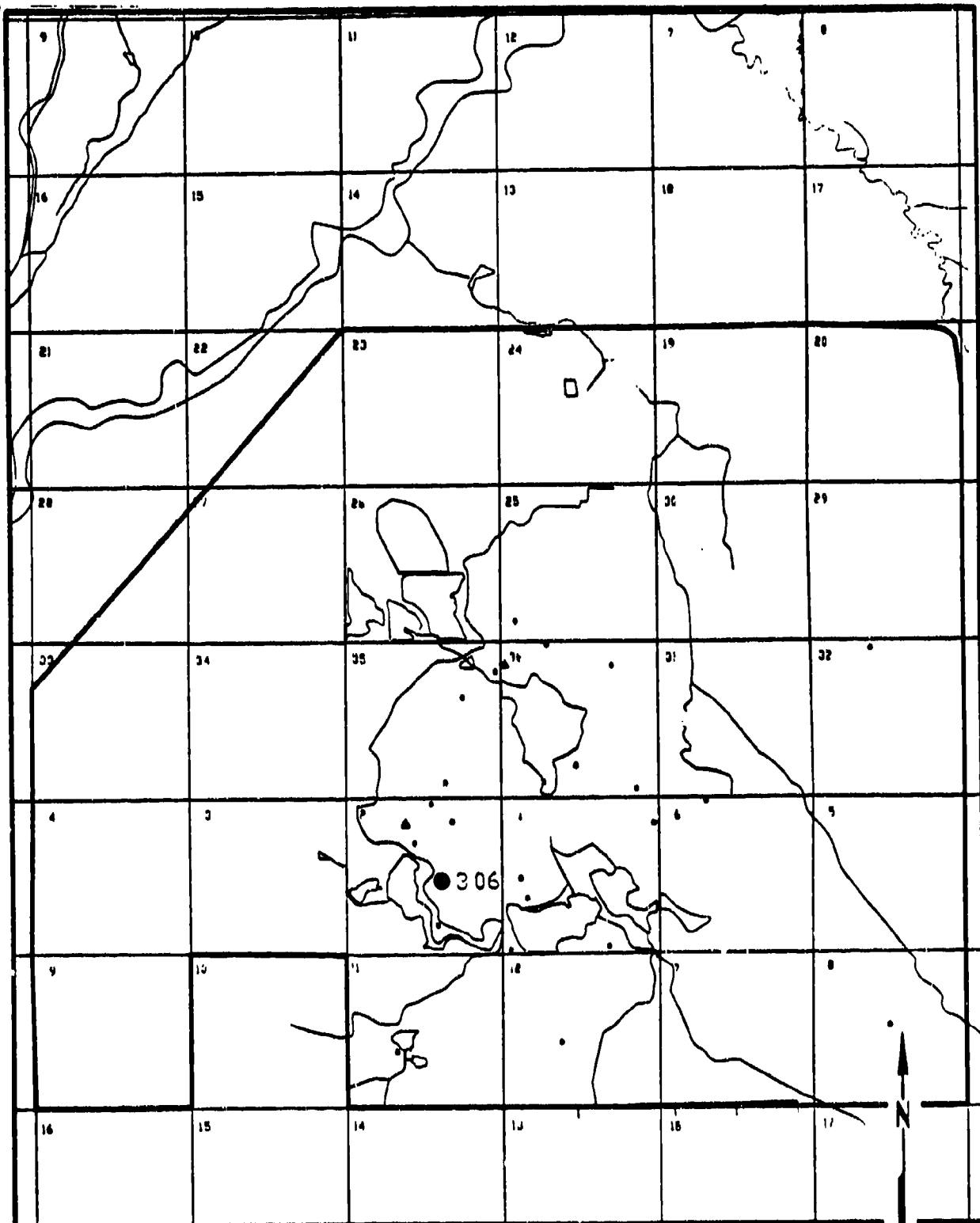


Figure D-113

**TETRACHLOROETHENE DETECTIONS DENVER
ZONE VC/VCE, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

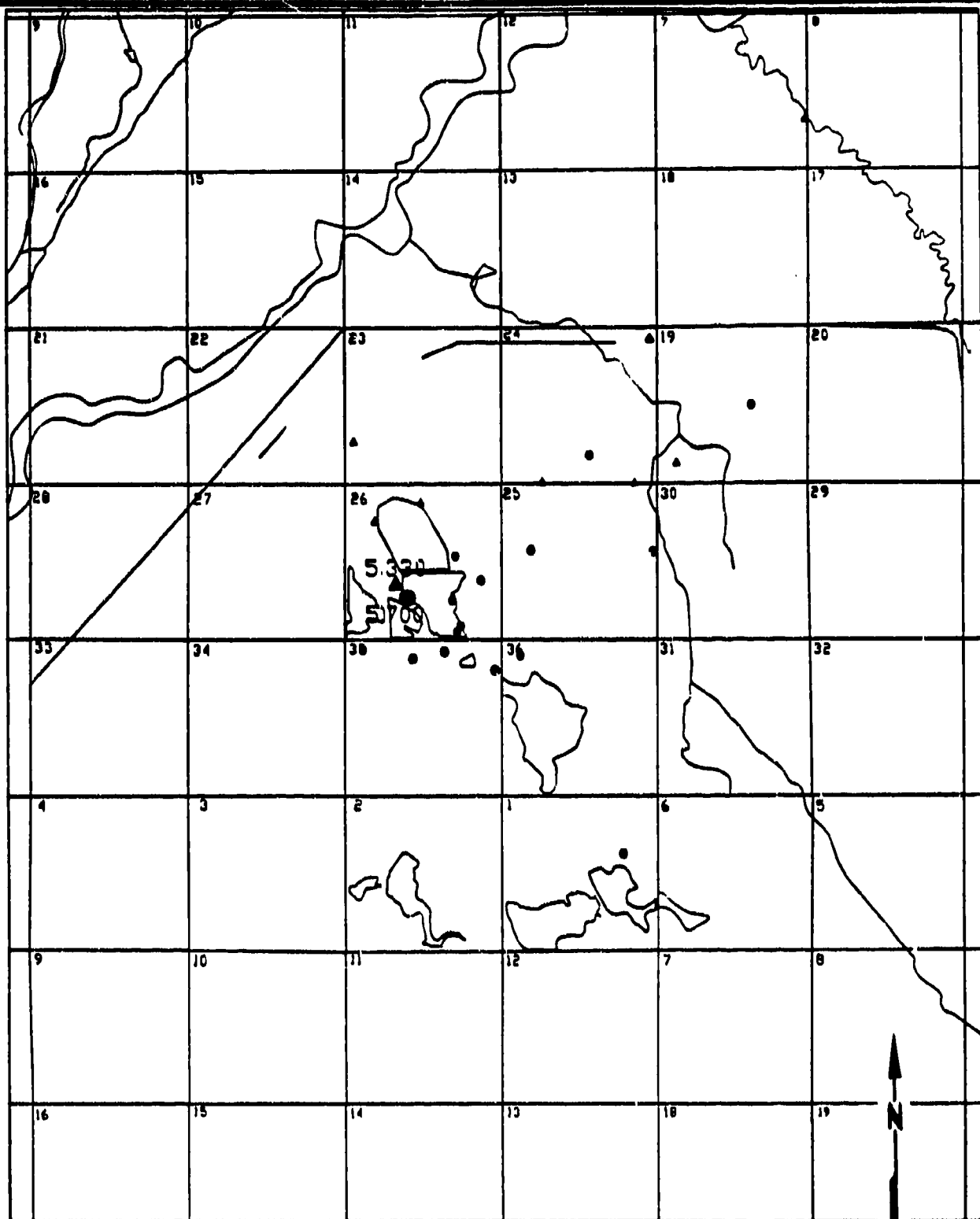
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 6000
Scale in Feet

Figure D-114
TETRACHLOROETHENE DETECTIONS
DENVER ZONE A 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- Units in ug/l

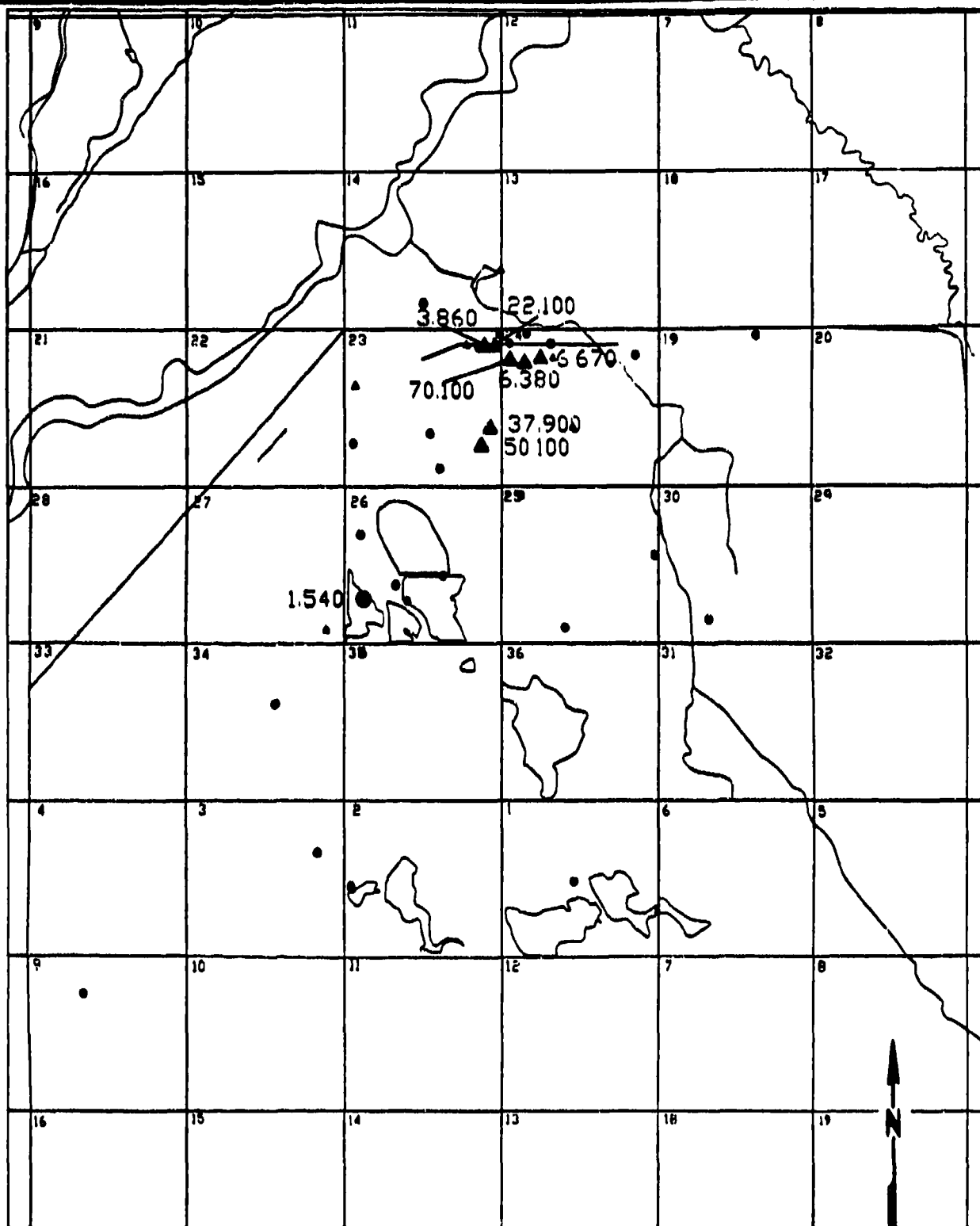
0 8000
Scale in Feet

Figure D-115

**TETRACHLOROETHENE DETECTIONS DENVER
ZONE 1, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection Units in ug/l

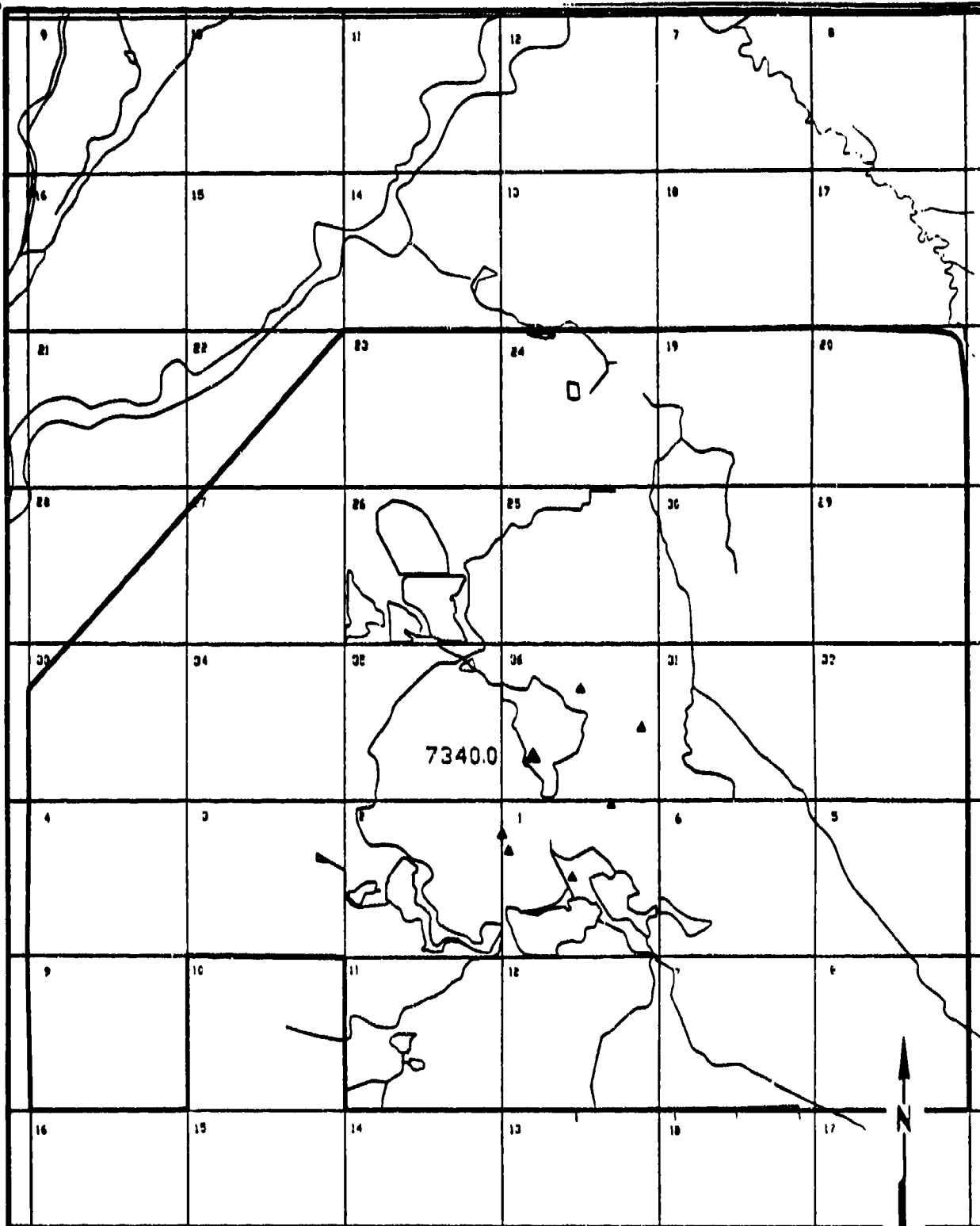
0 8000
Scale in Feet

Figure D-116

**TETRACHLOROETHENE DETECTIONS DENVER
ZONE 2, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESF, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

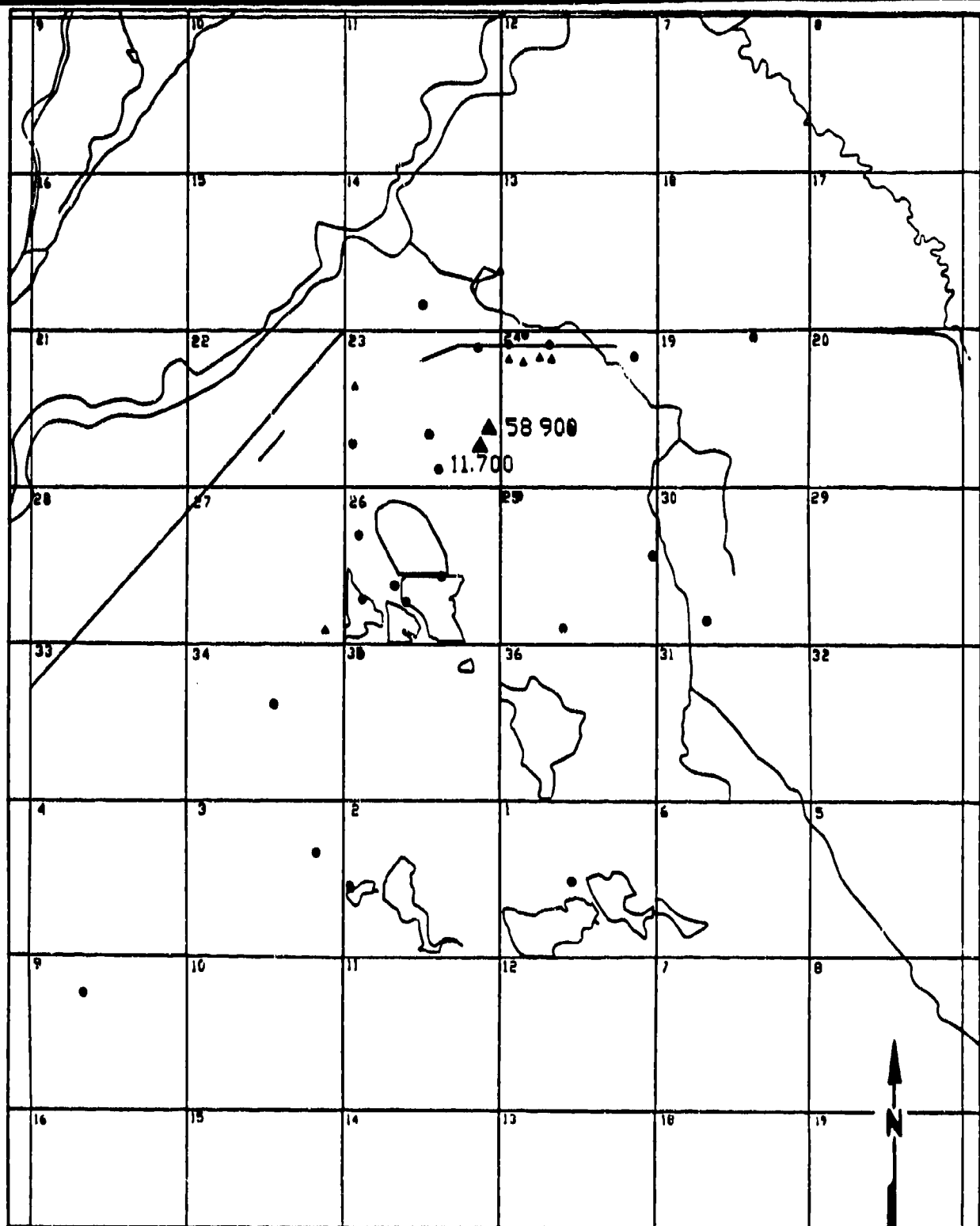
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-117
METHYLENE CHLORIDE DETECTIONS
DENVER ZONE VC/VCE 3RD QUARTER FY1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
Unconfined Denver Formation Detection
Units in ug/l

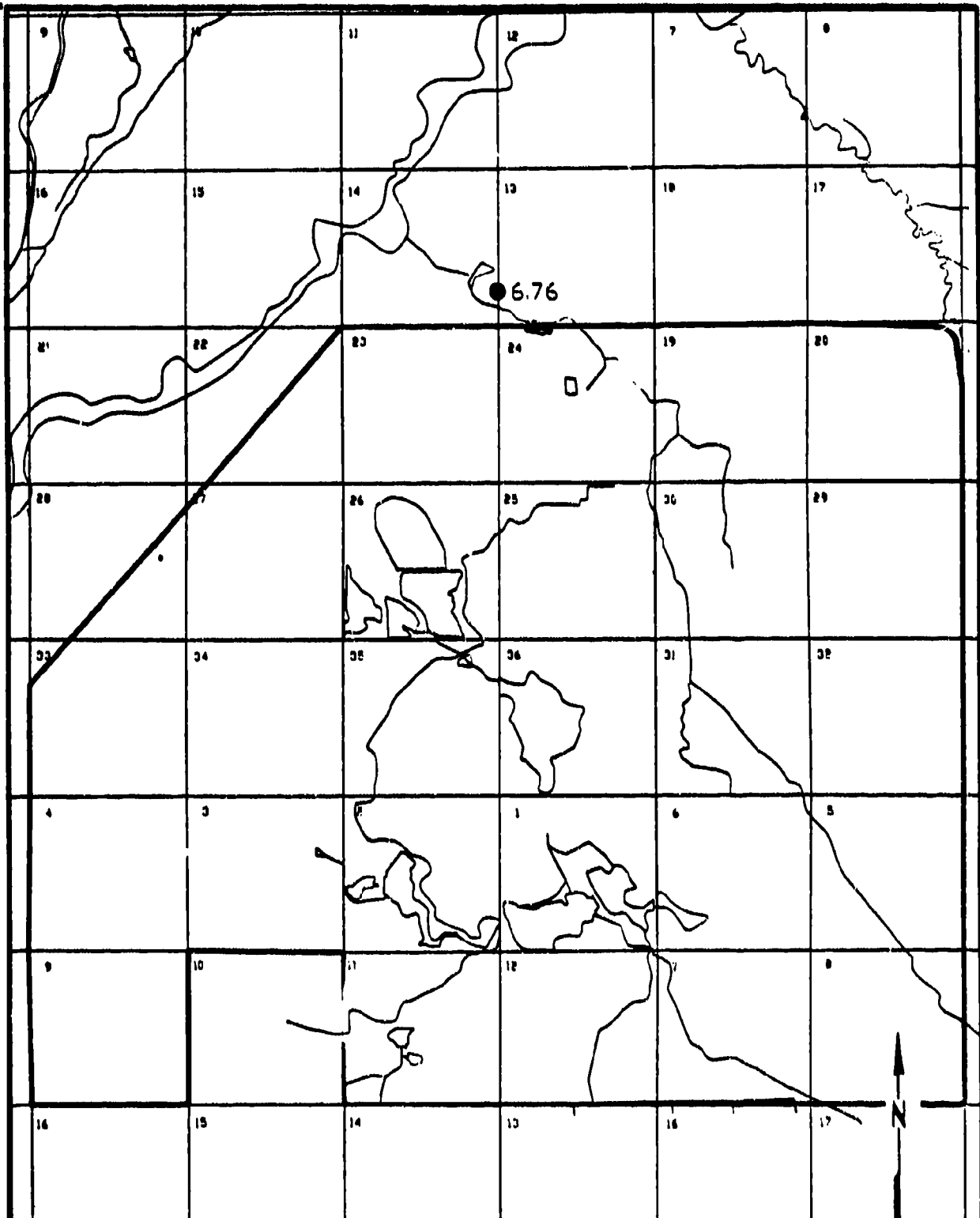
0 8000
Scale in Feet

Figure D-118

METHYLENE CHLORIDE DETECTIONS DENVER
ZONE 2, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.0
- Denver Detection, Units in ug/l.

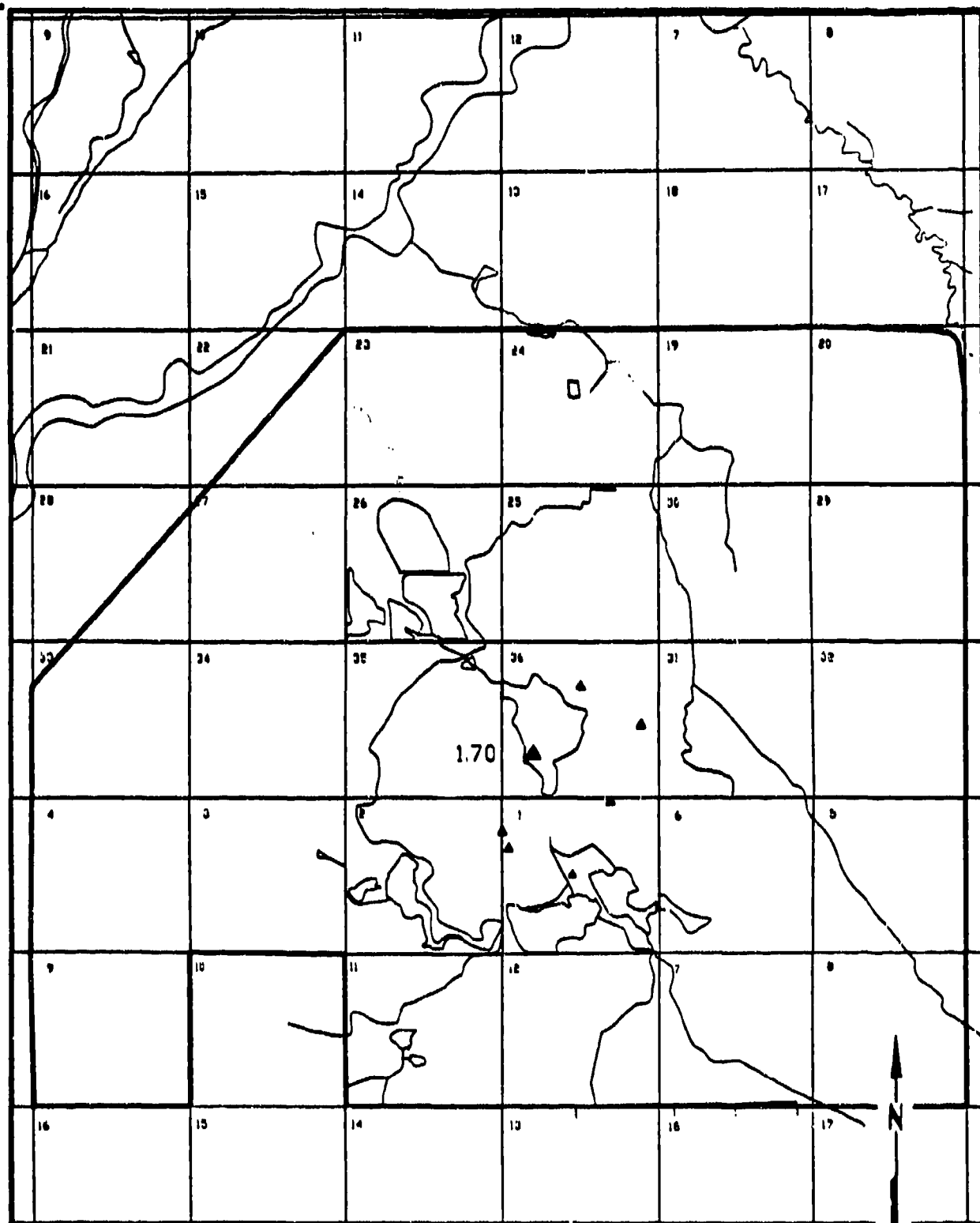
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-119
METHYLENE CHLORIDE DETECTIONS
DENVER ZONE 6 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

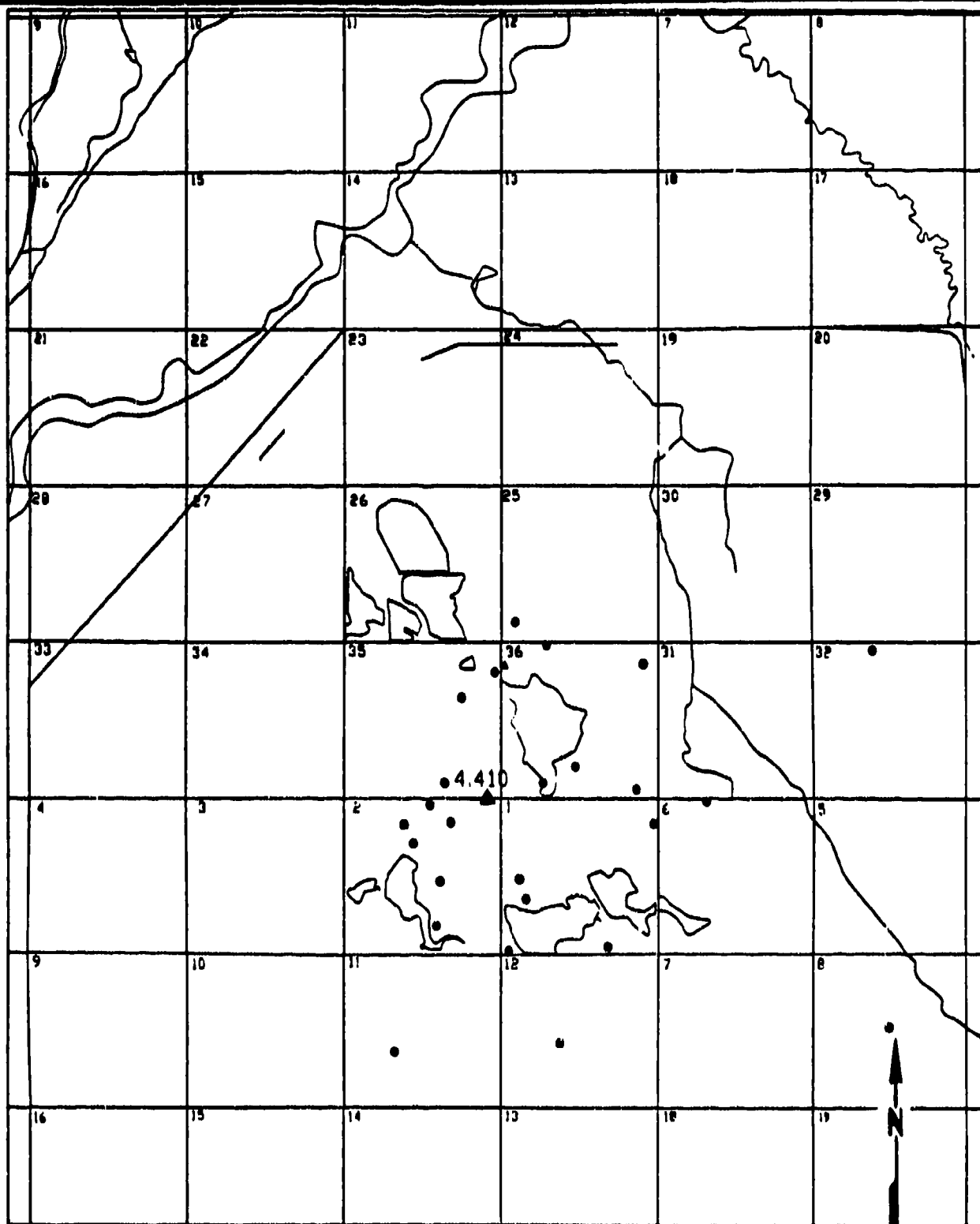
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 8000
Scale in Feet

Figure D-120
1,1 DICHLOROETHENE DETECTIONS DENVER
ZONE VC/VCE 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
Unconfined Denver Formation Detection
Units in ug/l

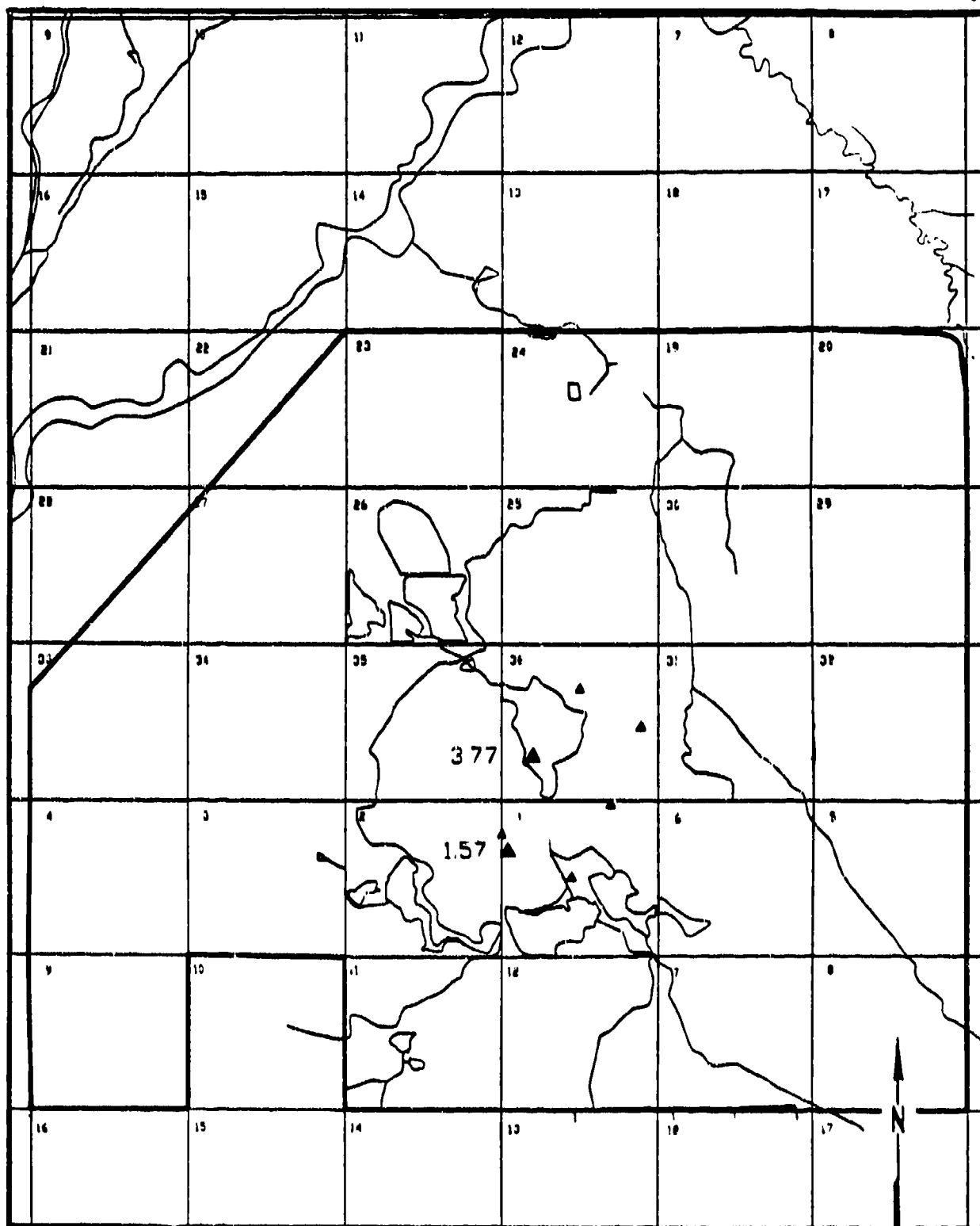
0 8000
Scale in Feet

Figure D-121

1,1-DICHLOROETHENE DETECTIONS DENVER
ZONE A, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

• Denver Well

172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

10.0

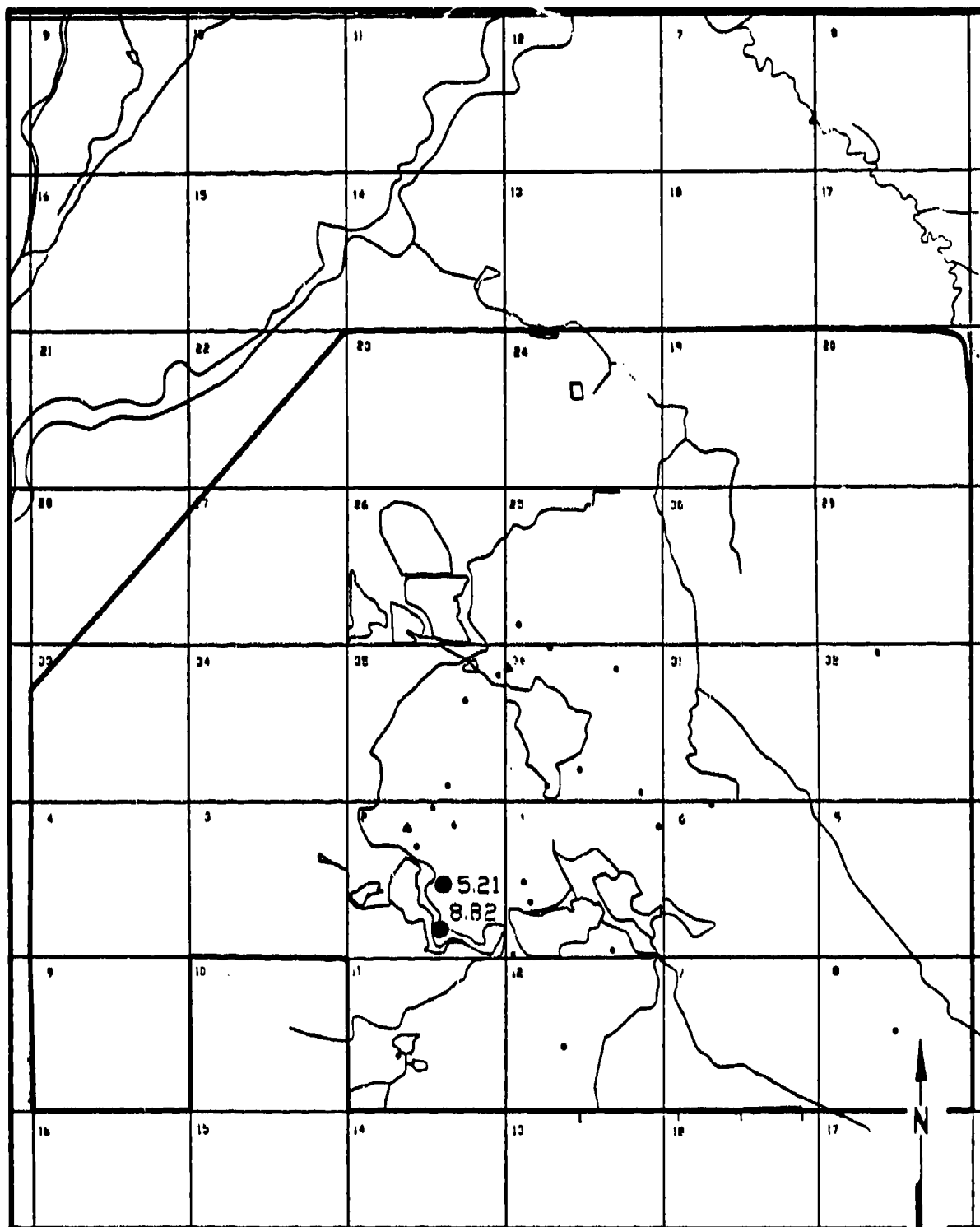
▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-122
1,1 DICHLOROETHANE DETECTIONS DENVER
ZONE VC/VCE 3RD QUARTER FY 1987

SOURCE: Hunter/EBE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
Denver Detection, Units in ug/l.

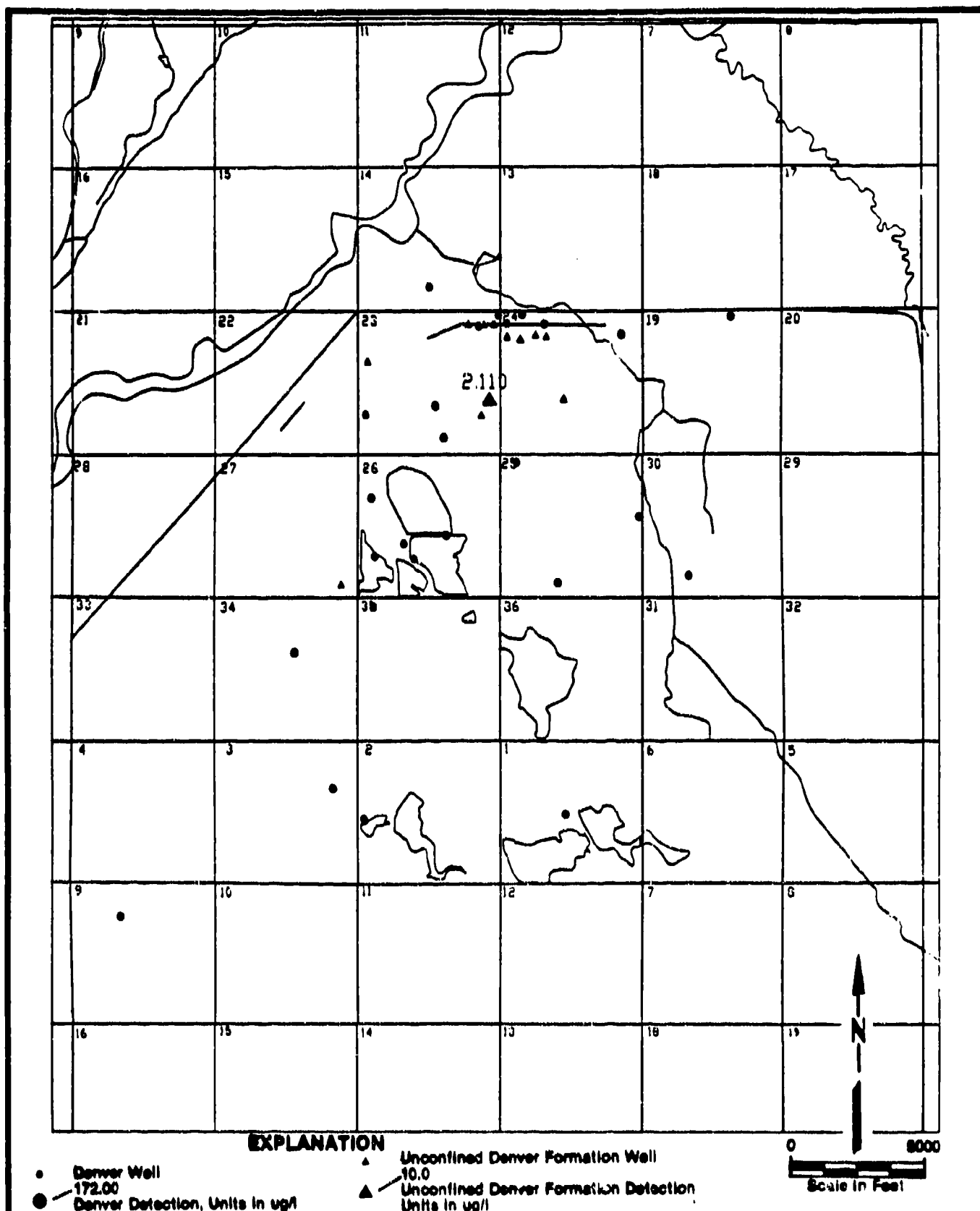
- ▲ Unconfined Denver Formation Well
10.0
- ▲ Unconfined Denver Formation Detection,
Units in ug/l.

0 8000
Scale in Feet

Figure D-123
11 DICHLOROETHANE DETECTIONS DENVER
ZONE A 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection Units in ug/l

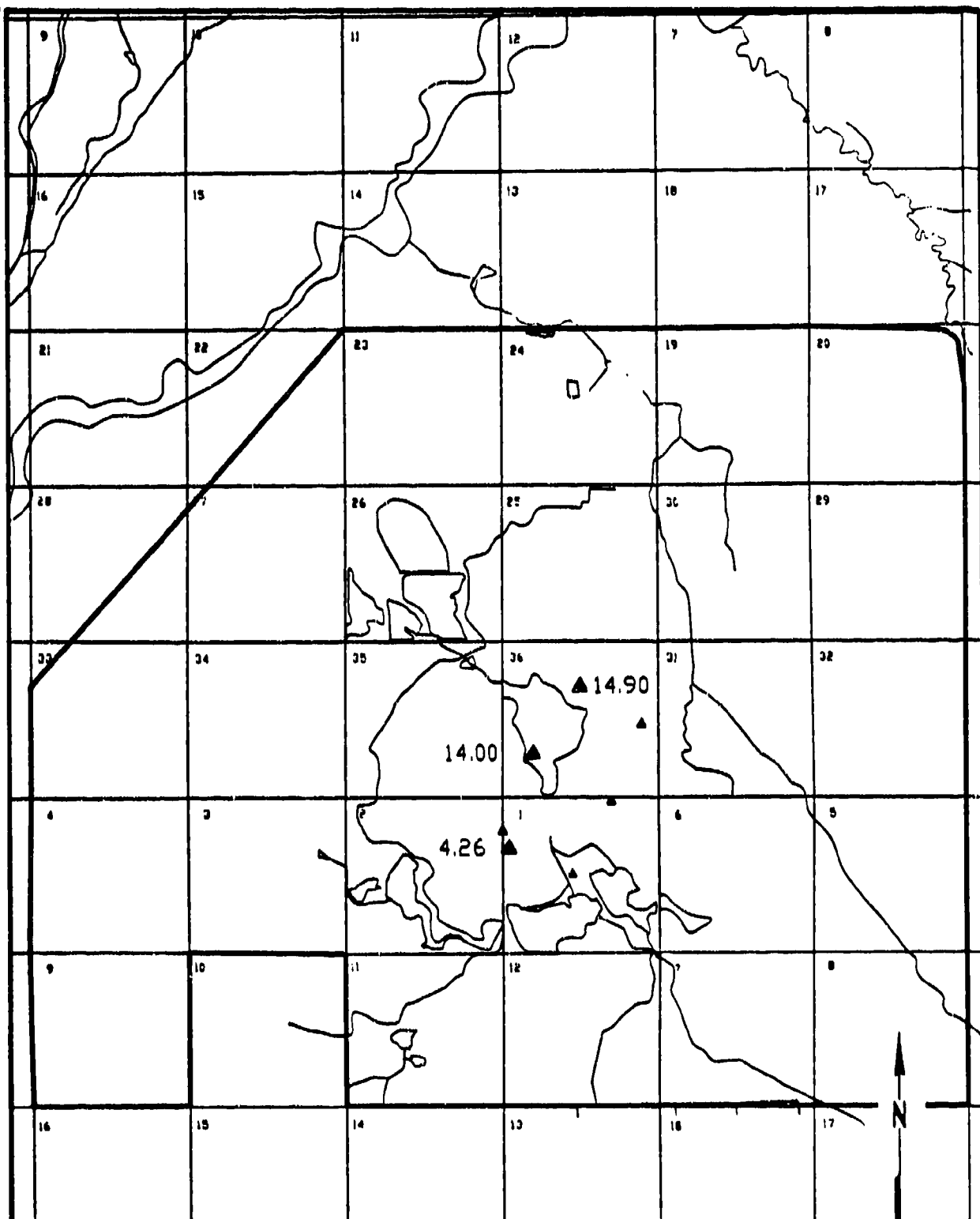
0 8000
Scale in Feet

Figure D-124

1,1-DICHLOROETHENE DETECTIONS DENVER
ZONE 2, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

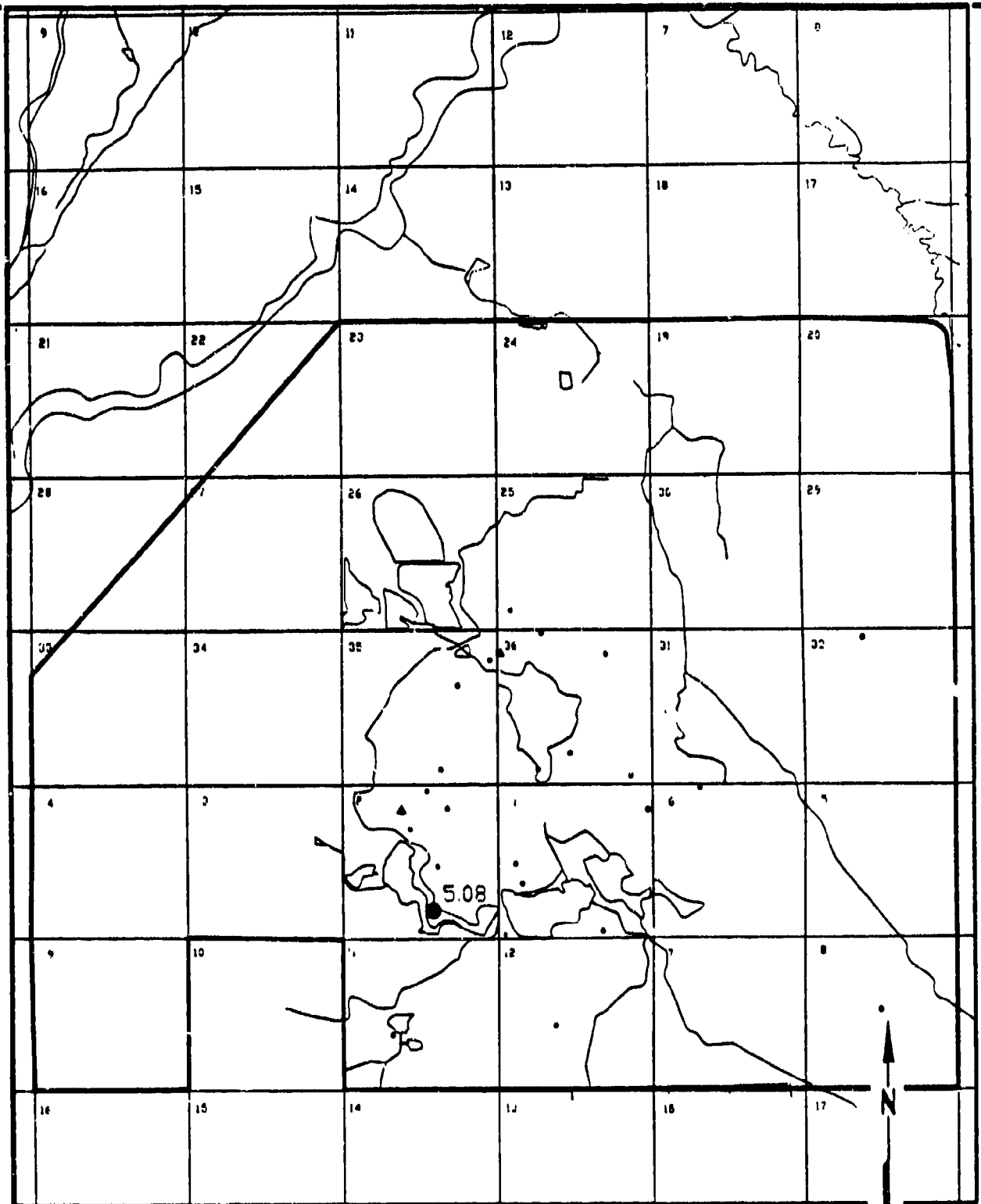
0 5000
Scale in Feet

Figure D-125

**T.1,2DICHLOROETHENE DETECTIONS
DENVER ZONE VCVCE 3RD QUARTER FY1987**

SOURCE: Hunter/ESE, 1988

Prepared for:
**U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**

**EXPLANATION**

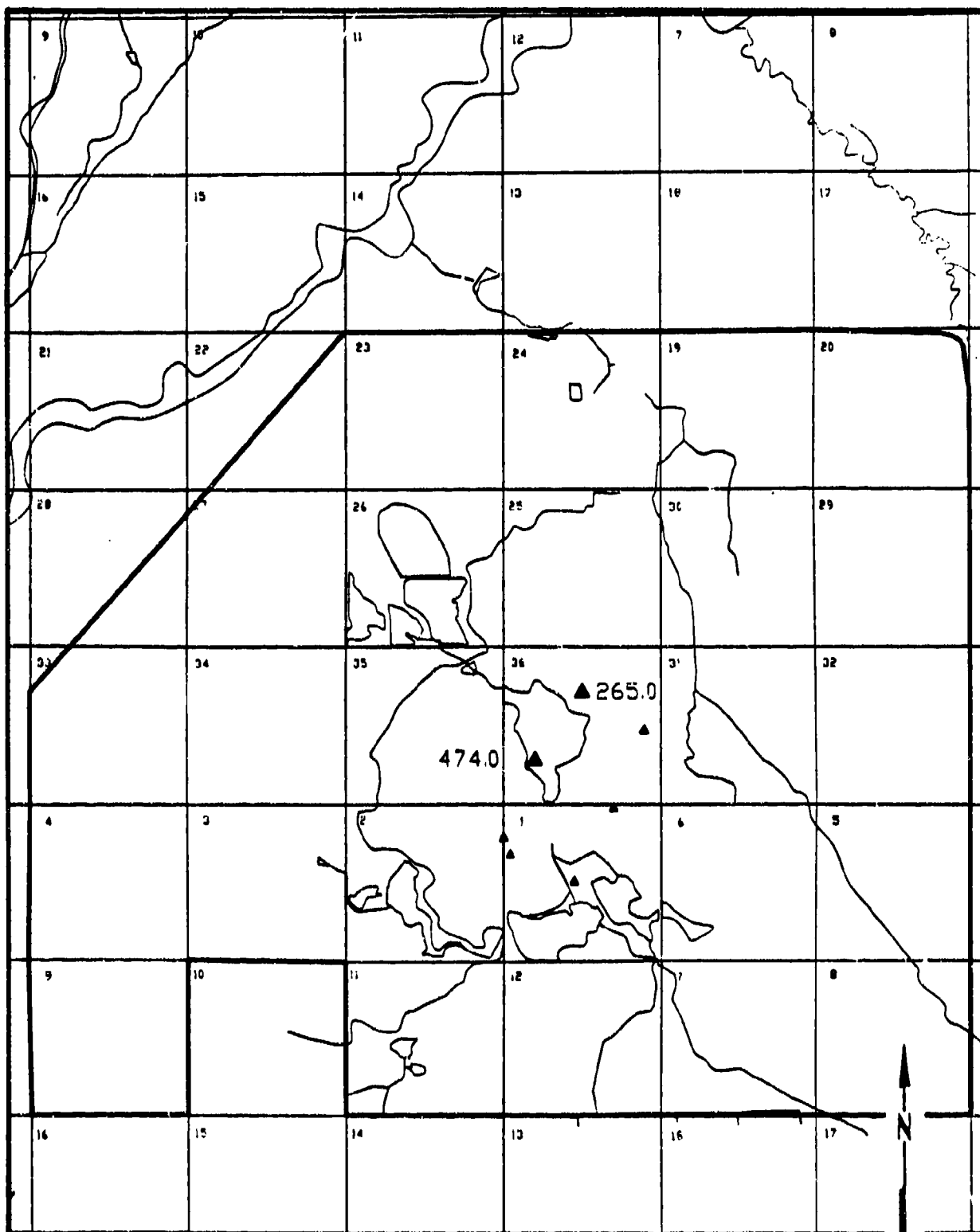
- Denver Well
- 172.00 Denver Detection, Units in ug/l.
- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-126
T,1,2DICHLOROETHENE DETECTIONS
DENVER ZONE A 3RD QUARTER FY 1987

SOURCE: Hunter/EBE, 1986

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

• Denver Well

● 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

▲ 10.0

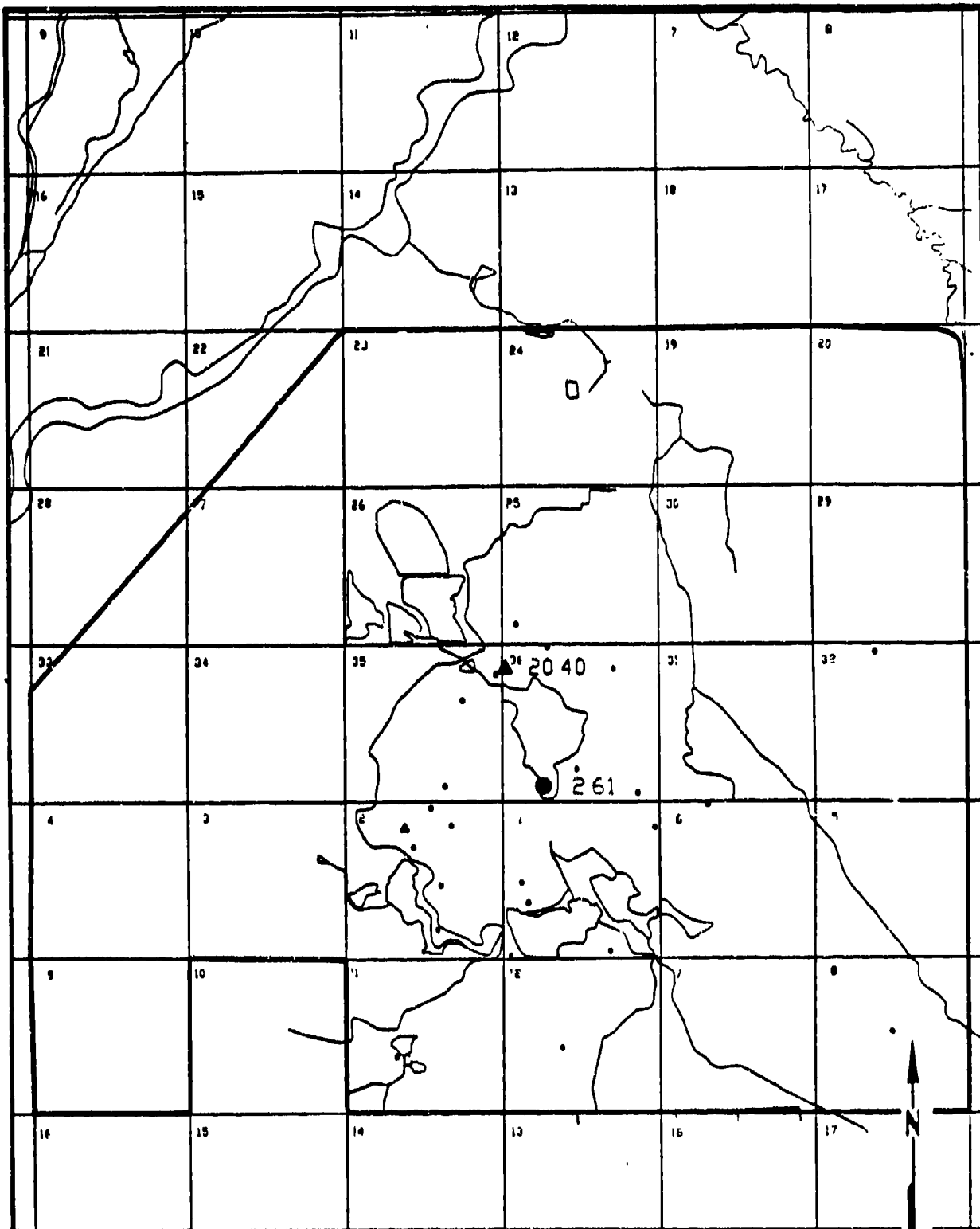
▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
 Scale in Feet

Figure D-127
1,2 DICHLOROETHANE DETECTIONS
DENVER ZONE VC/VCE 3RD QUARTER FY1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l.

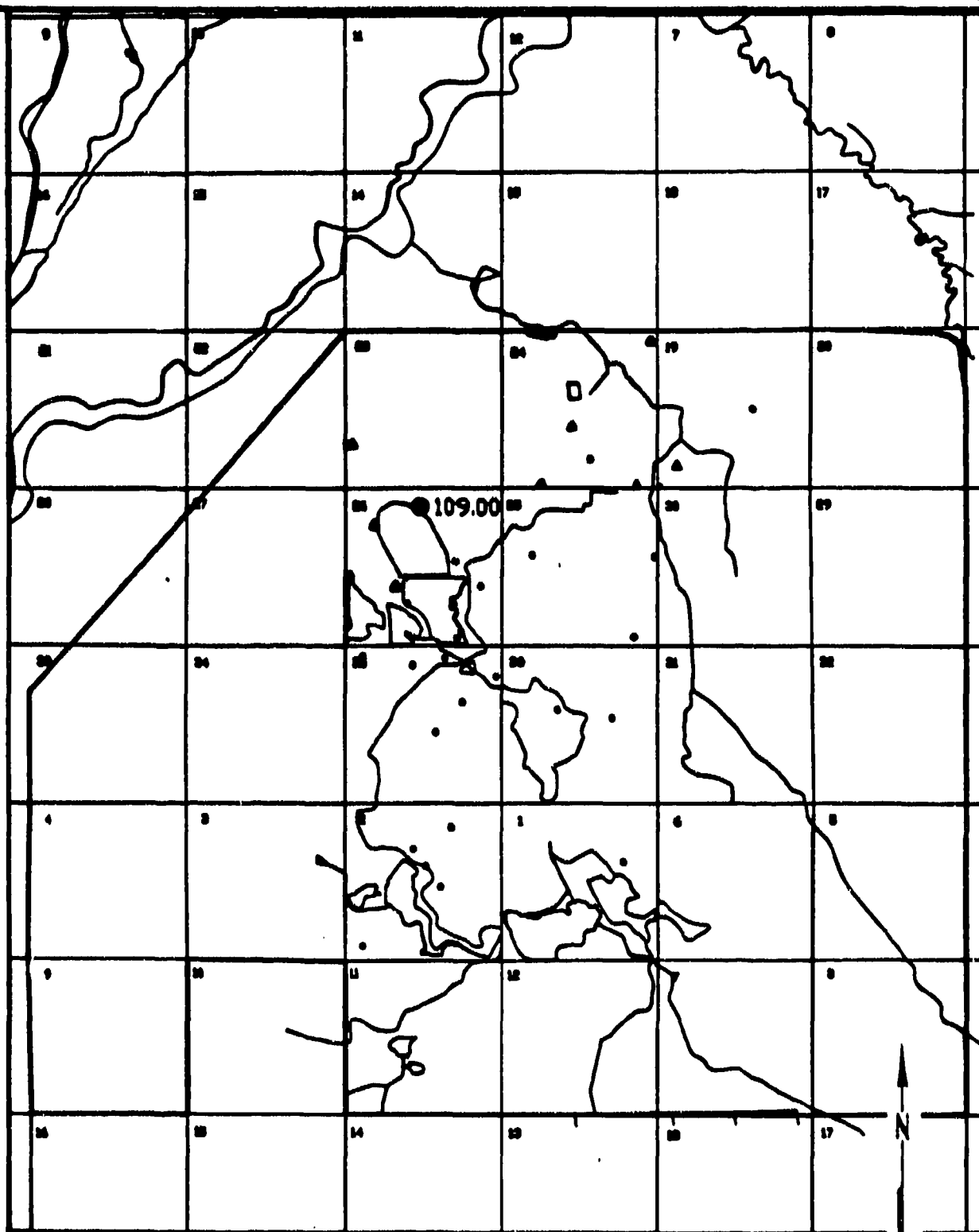
- ▲ Unconfined Denver Formation Well 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-128
1,2 DICHLOROETHANE DETECTIONS
DENVER ZONE A 3RD QUARTER FY 1987

SOURCE: Hunter/ESB, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
Denver Detection, Units in ug/l.

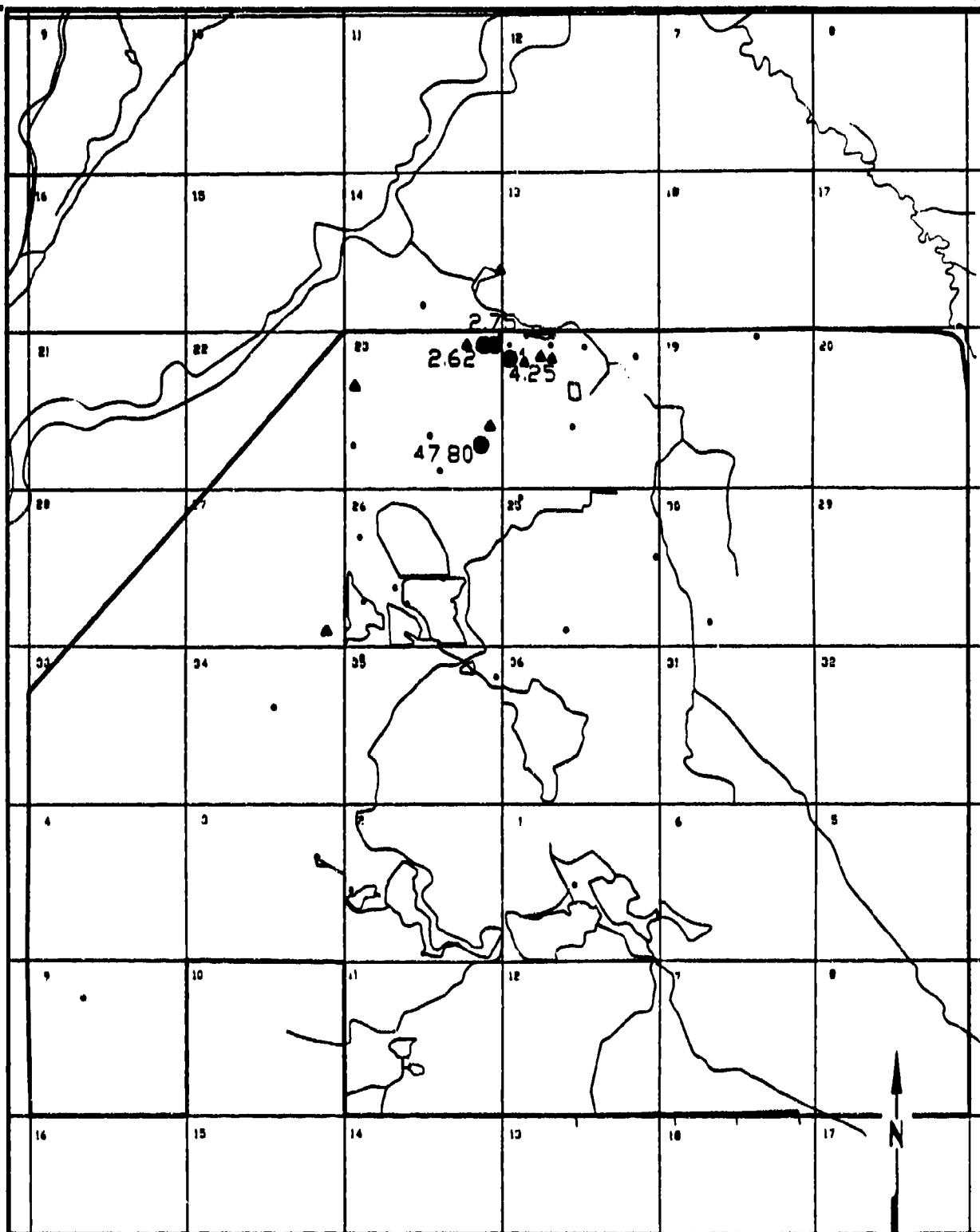
- ▲ Unconfined Denver Formation Well
10.0
- ▲ Unconfined Denver Formation Detection,
Units in ug/l.

0 8000
Scale in Feet

Figure D-129
1,2 DICHLOROETHANE DETECTIONS DENVER
ZONE 1 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1986

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

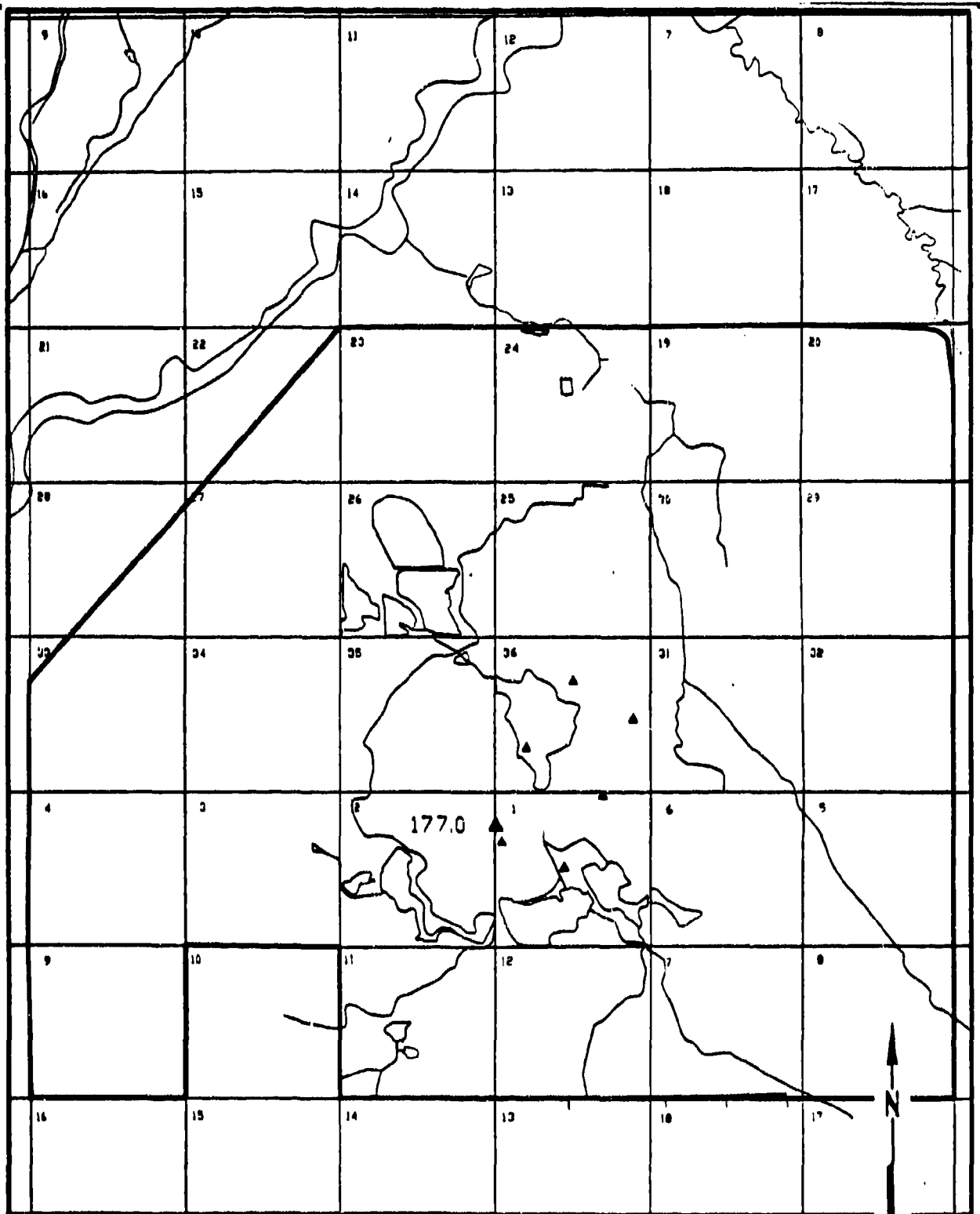
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-130
1,2 DICHLOROETHANE DETECTIONS
DENVER ZONE 2 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

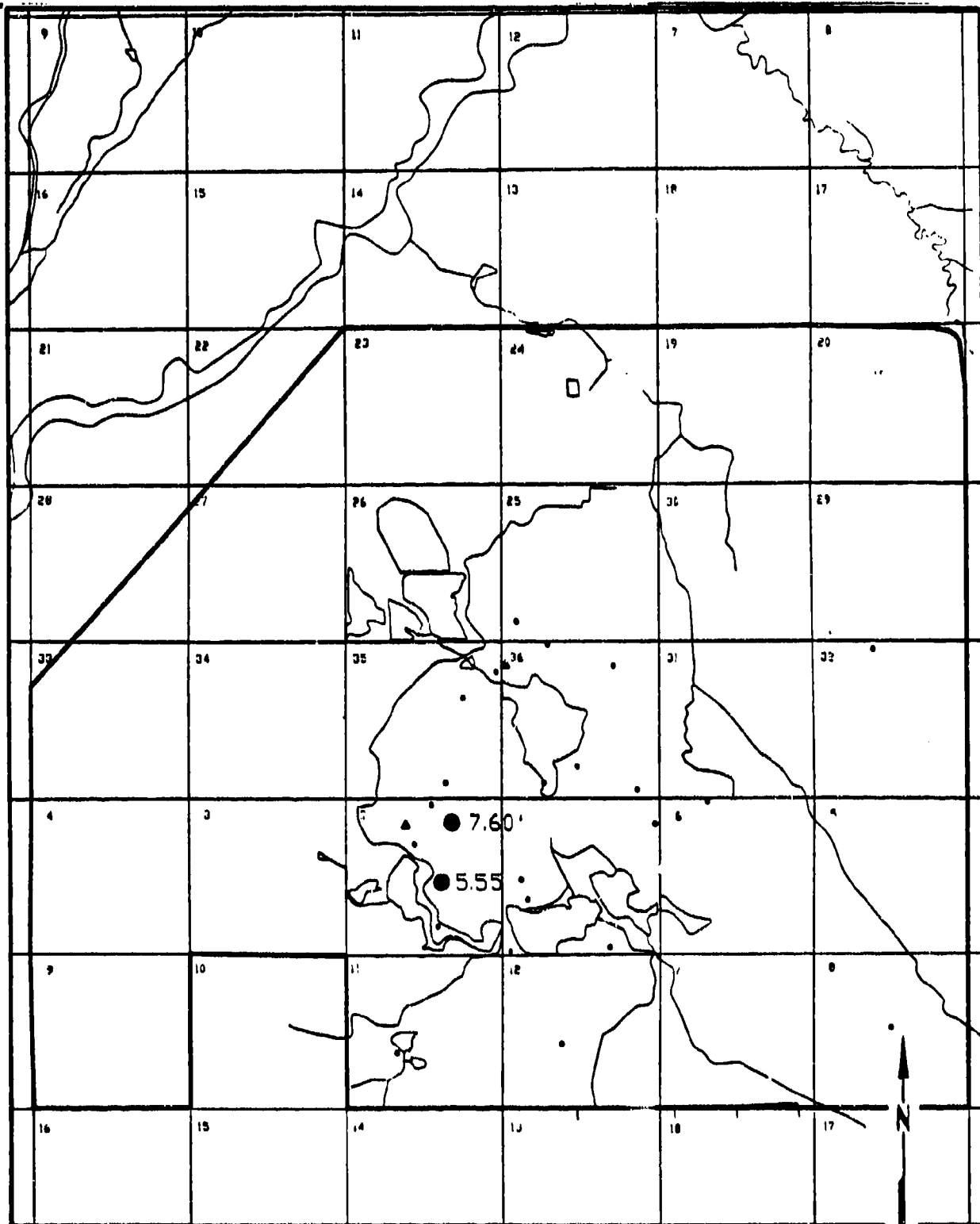
- Denver Well
- 172.00 Denver Detection, Units in ug/l.
- ▲ Unconfined Denver Formation Well 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 8000
Scale in Feet

Figure D-132
CARBON TETRACHLORIDE DETECTIONS
DENVER ZONE VCE 3RD QUARTER,
FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

• Denver Well

● 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well
10.0

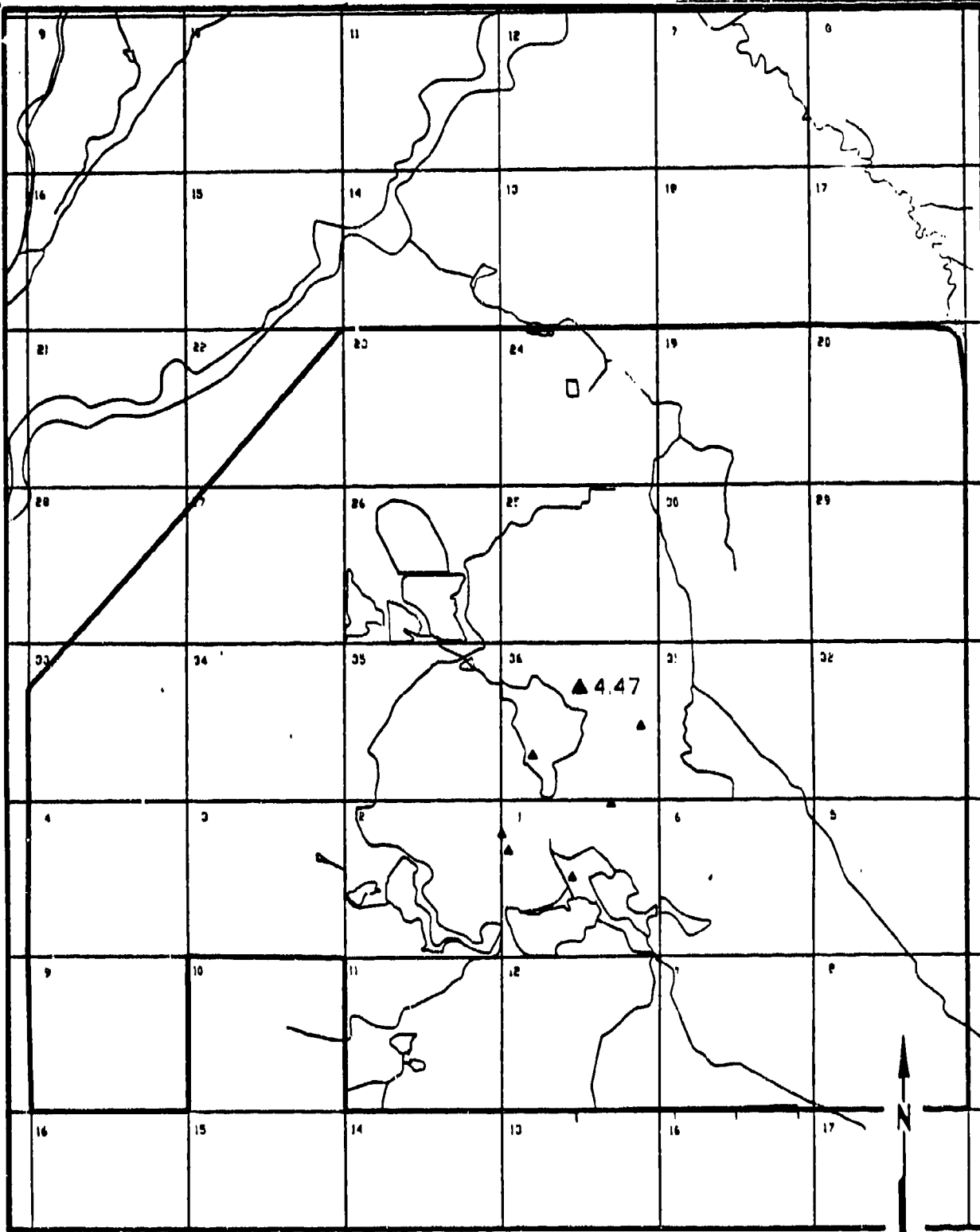
▲ Unconfined Denver Formation Detection,
Units in ug/l.

0 5000
Scale in Feet

FigureD-133
CARBON TETRACHLORIDE DETECTIONS
DENVER ZONE A 3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



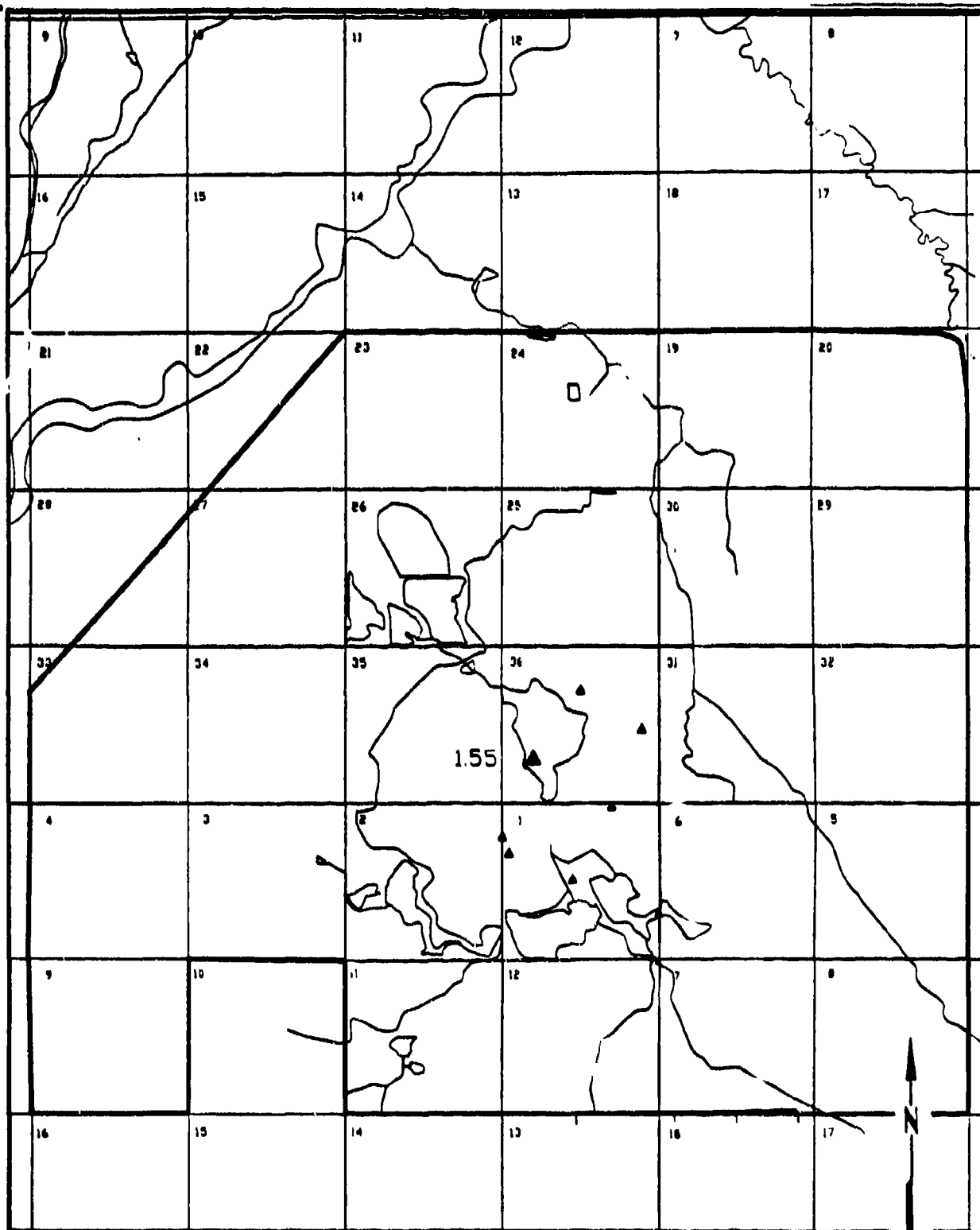
EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l.
- ▲ Unconfined Denver Formation Well 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-134
1,1,2 TRICHLOROETHANE DETECTIONS
DENVER ZONE VC/VCE 3RD QUARTER,
FY 1987
 SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

- ▲ Unconfined Denver Formation Well
 10.0
 ▲ Unconfined Denver Formation Detection,
 Units in ug/l.

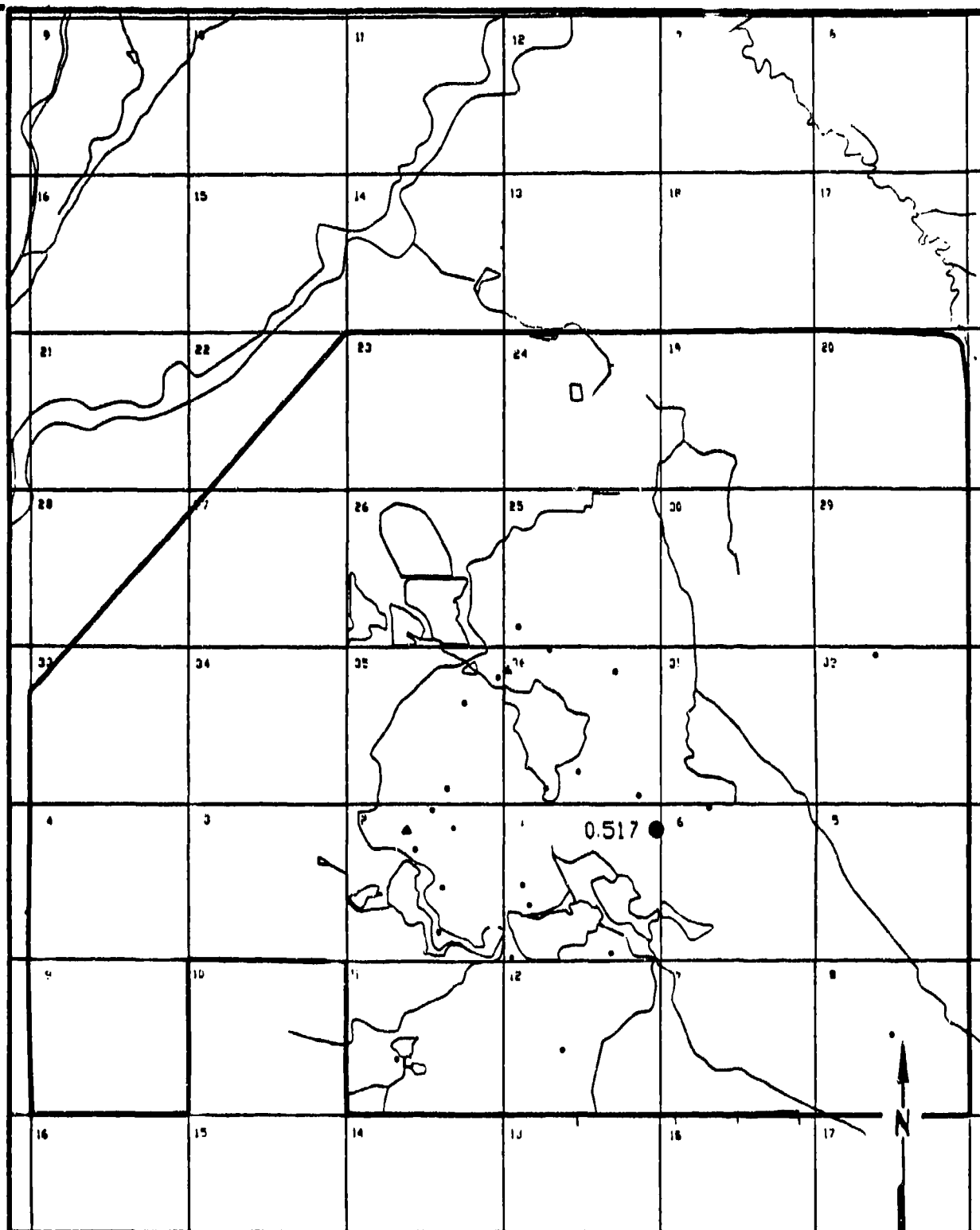
0 5000

Scale in Feet

Figure D-135
DBCP DETECTIONS DENVER ZONE VC/VCE
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00 Denver Detection, Units in ug/l.

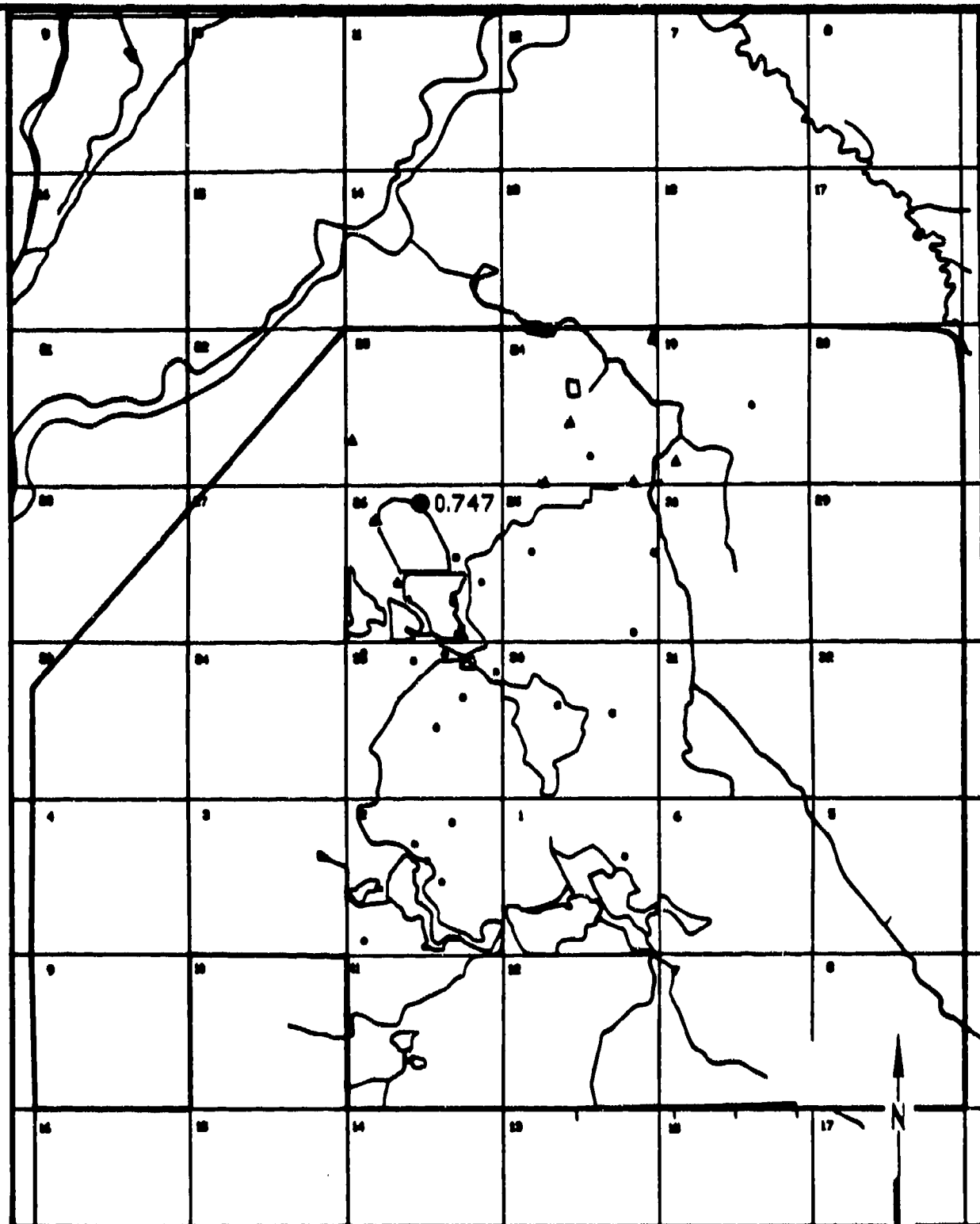
- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-136
DBCP DETECTIONS DENVER ZONE A
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

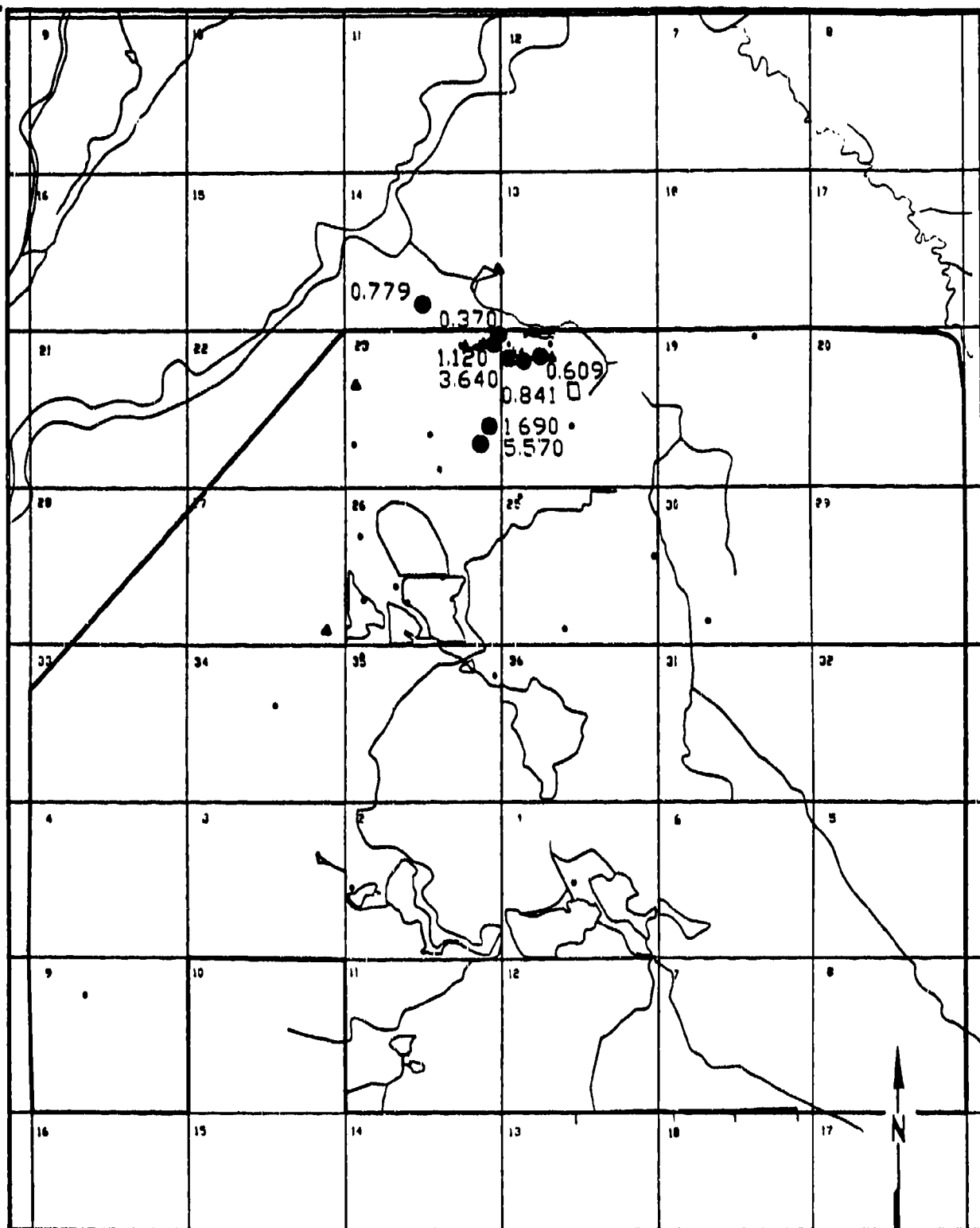
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-137
DBCP DETECTIONS DENVER ZONE 1
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

● Denver Well

● 172.00
● Denver Detection, Units in ug/l.

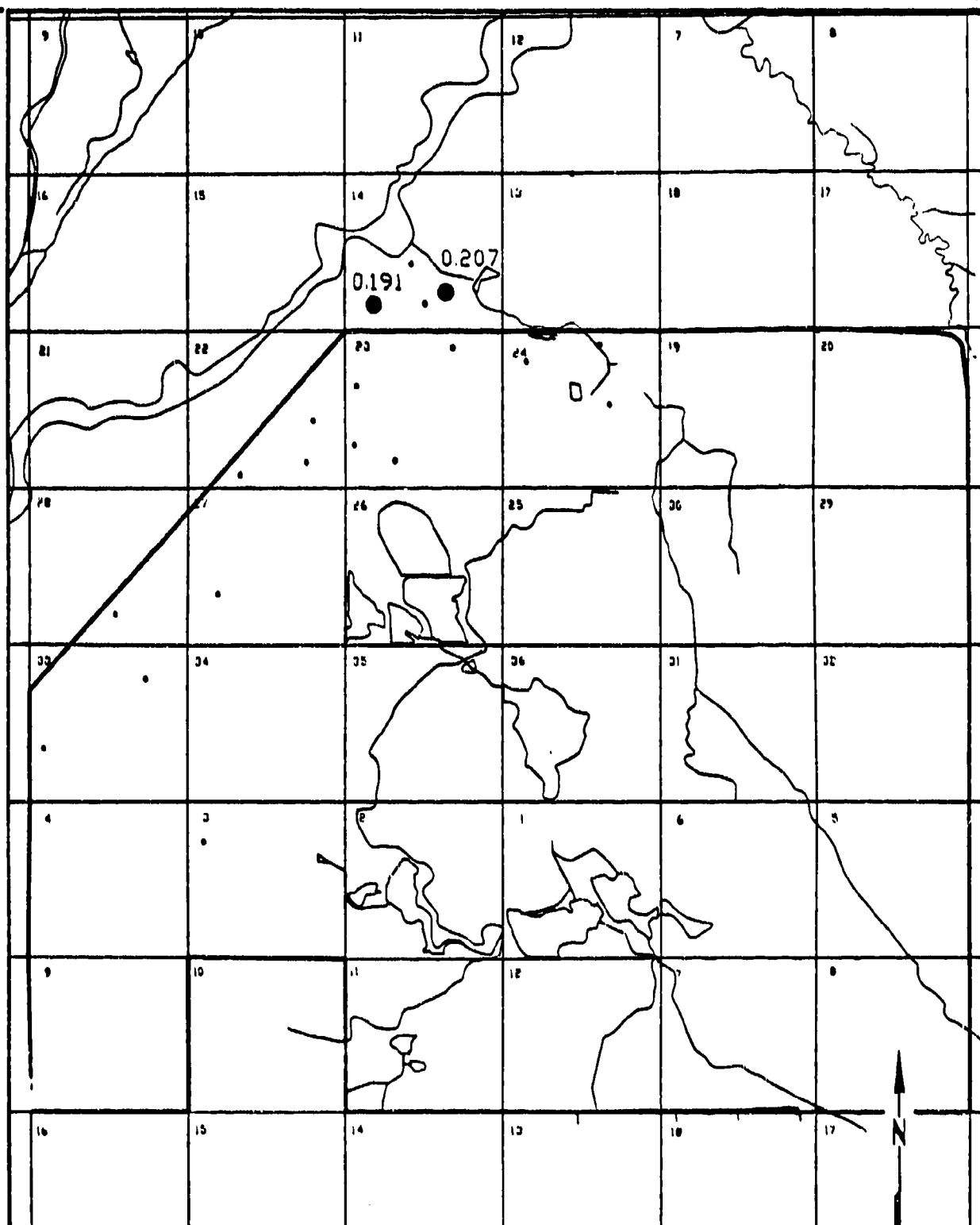
▲ Unconfined Denver Formation Well

▲ 10.0
▲ Unconfined Denver Formation Detection,
Units in ug/l.0 5000
Scale in Feet

Figure D-138
DBCP DETECTIONS DENVER ZONE 2
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

• Denver Well

● 172.00

● Denver Detection, Units in ug/l.

▲ Unconfined Denver Formation Well

▲ 10.0

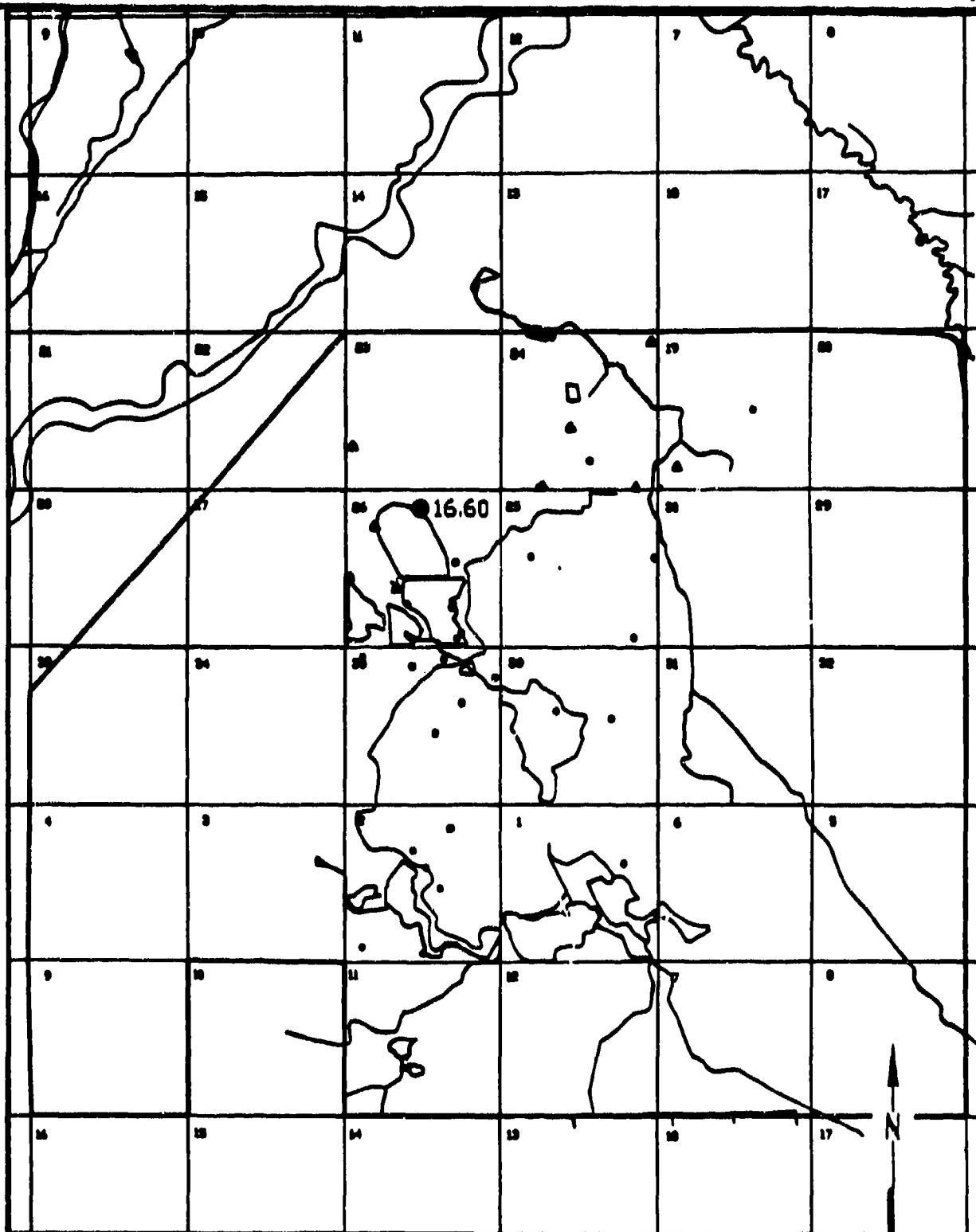
▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-139
DBCP DETECTIONS DENVER ZONE 4
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

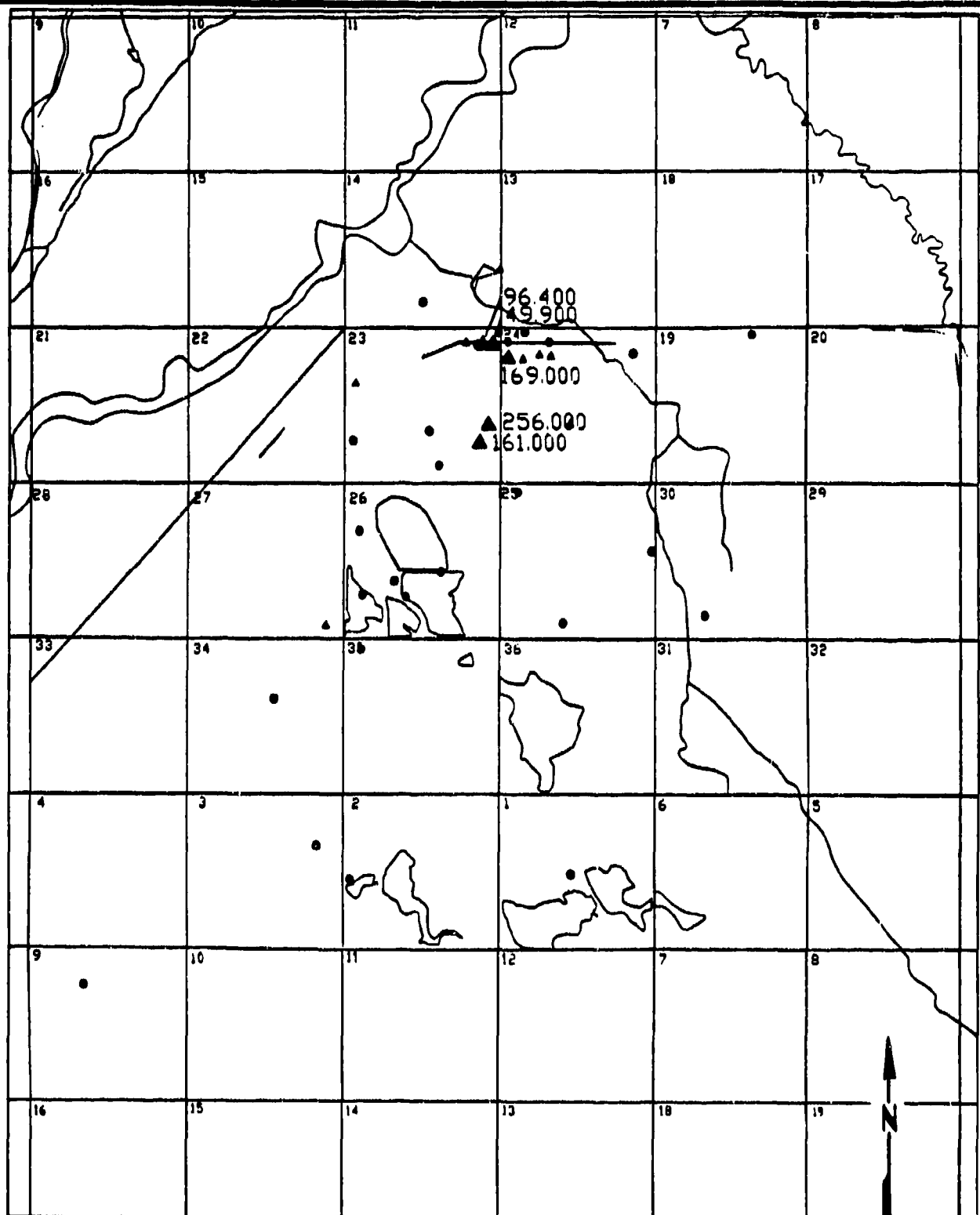
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 8000
Scale in Feet

Figure D-140
DCPD DETECTIONS DENVER ZONE 1
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection Units in ug/l

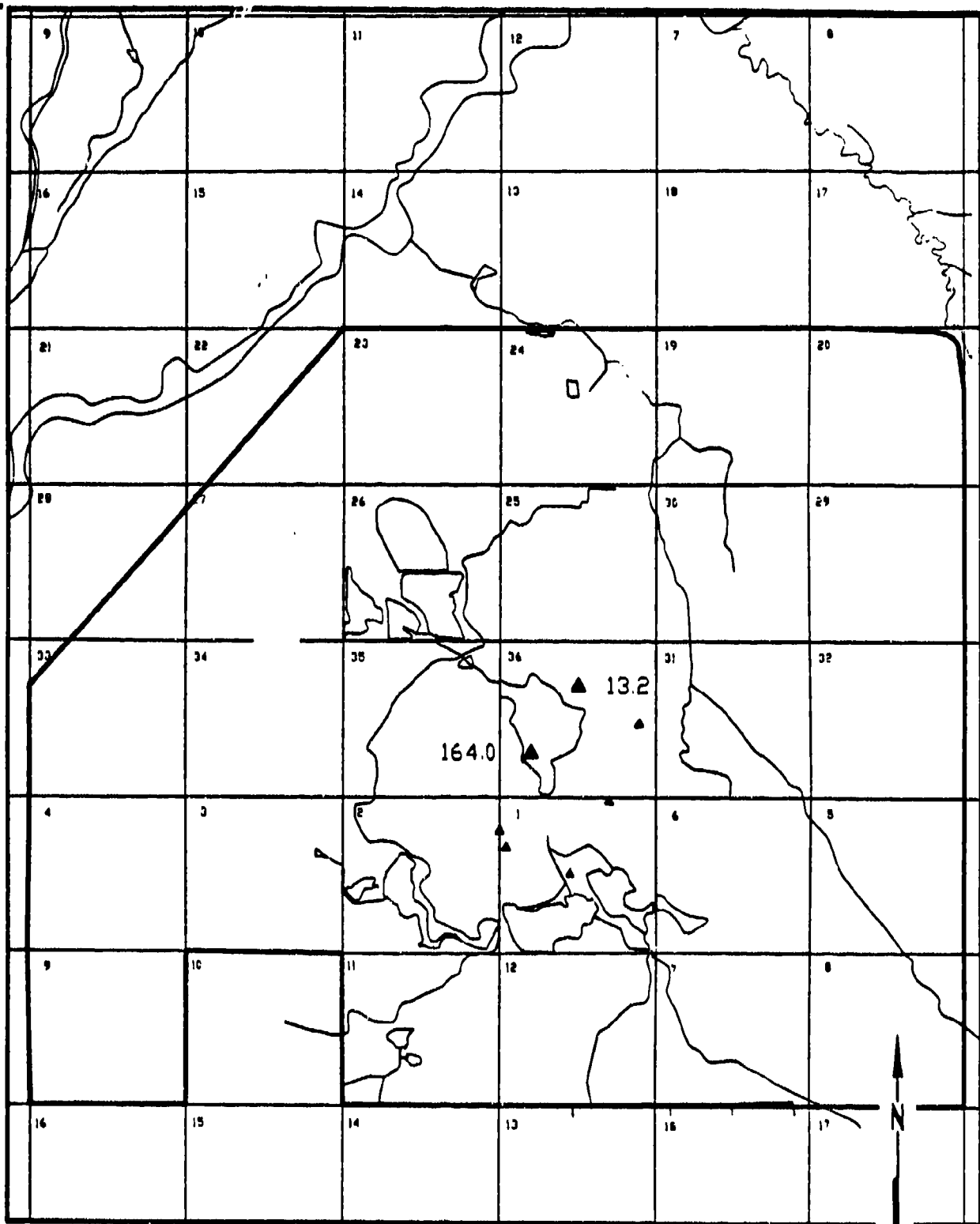
0 6000
Scale in Feet

Figure D-141

**DCPD DETECTIONS DENVER ZONE 2,
3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

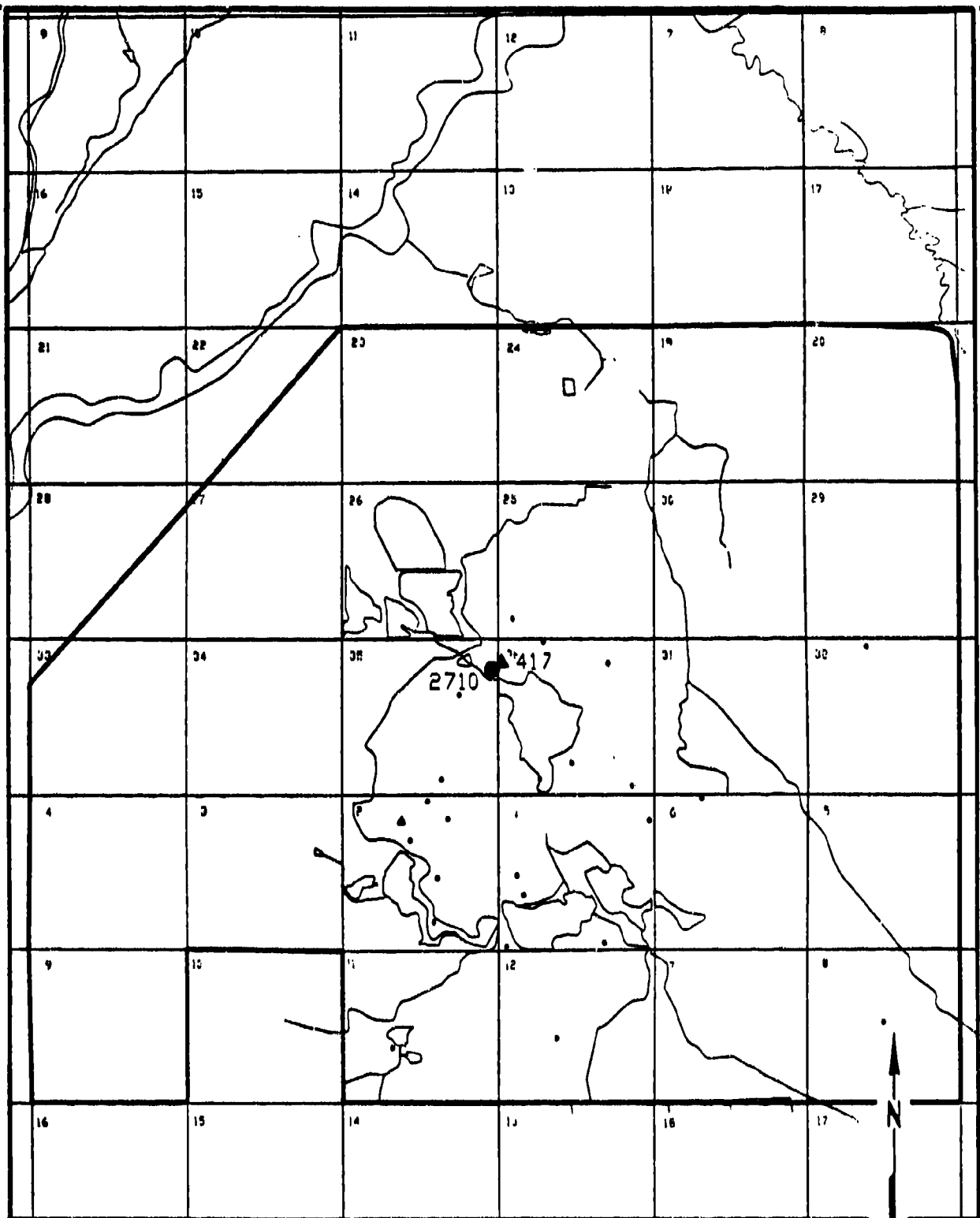
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-142
DIMP DETECTIONS DENVER ZONE VC/VCE
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

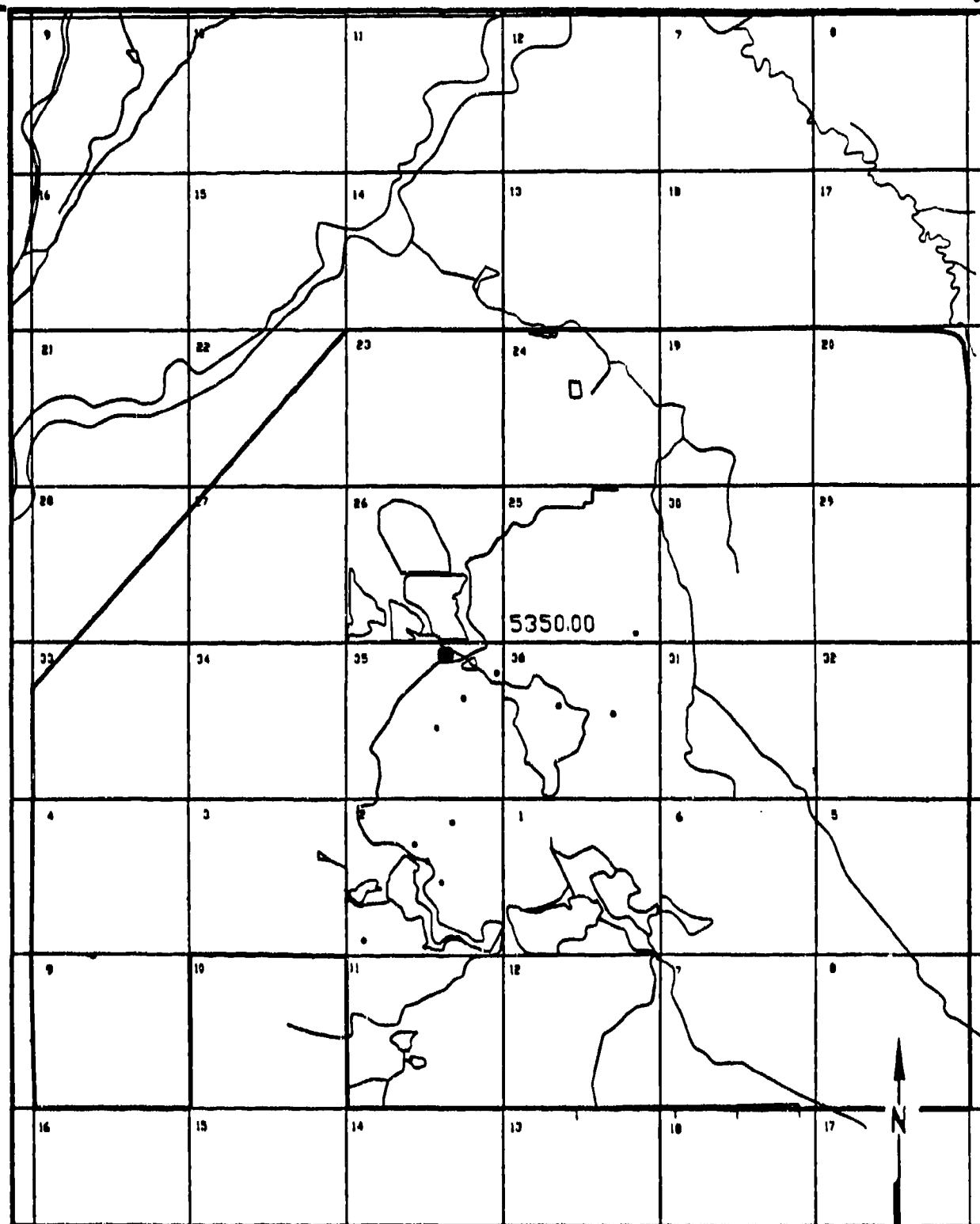
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-143
DIMP DETECTIONS DENVER ZONE A
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

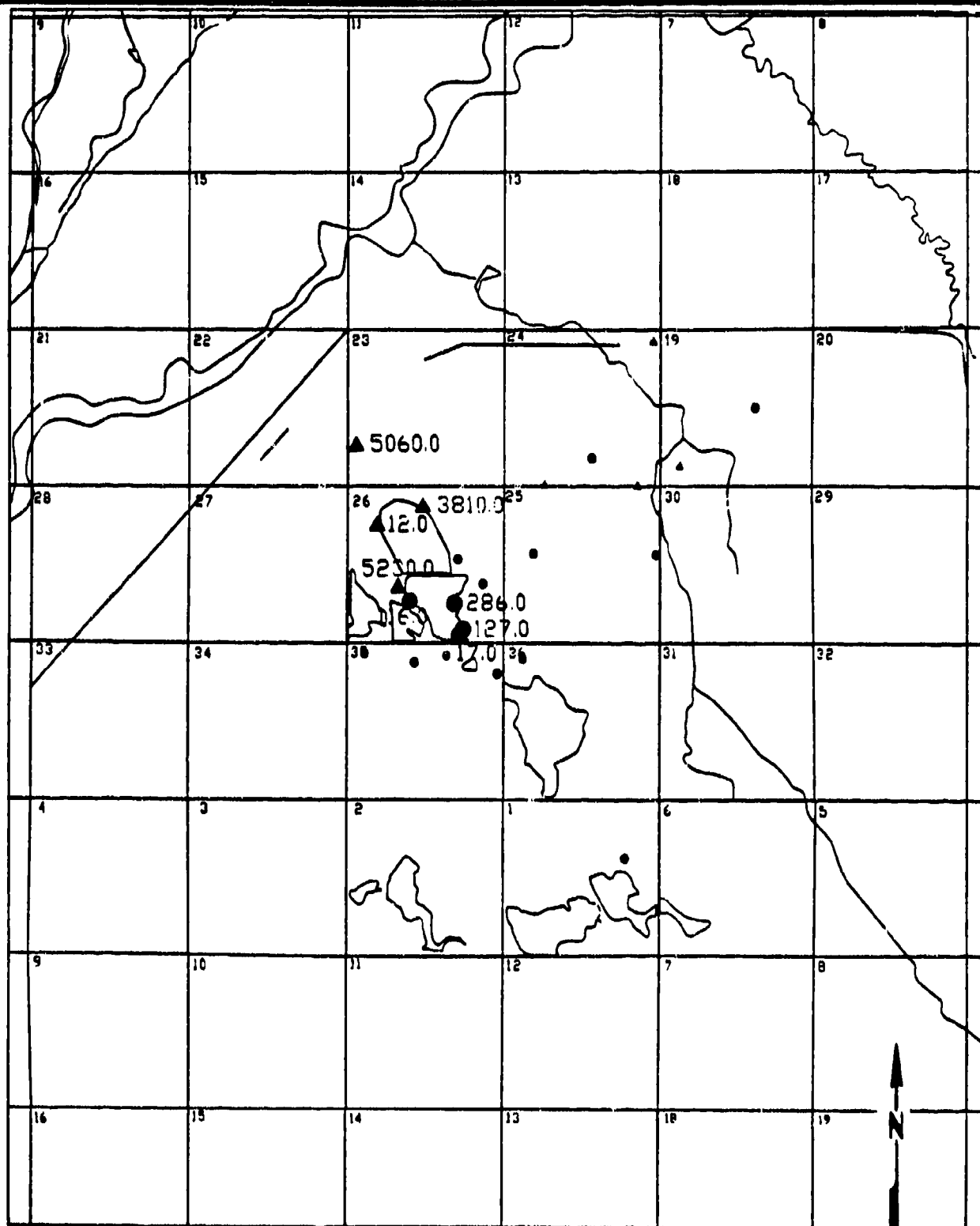
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-144
DIMP DETECTIONS DENVER ZONE 1U
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- ▲ Units in ug/l

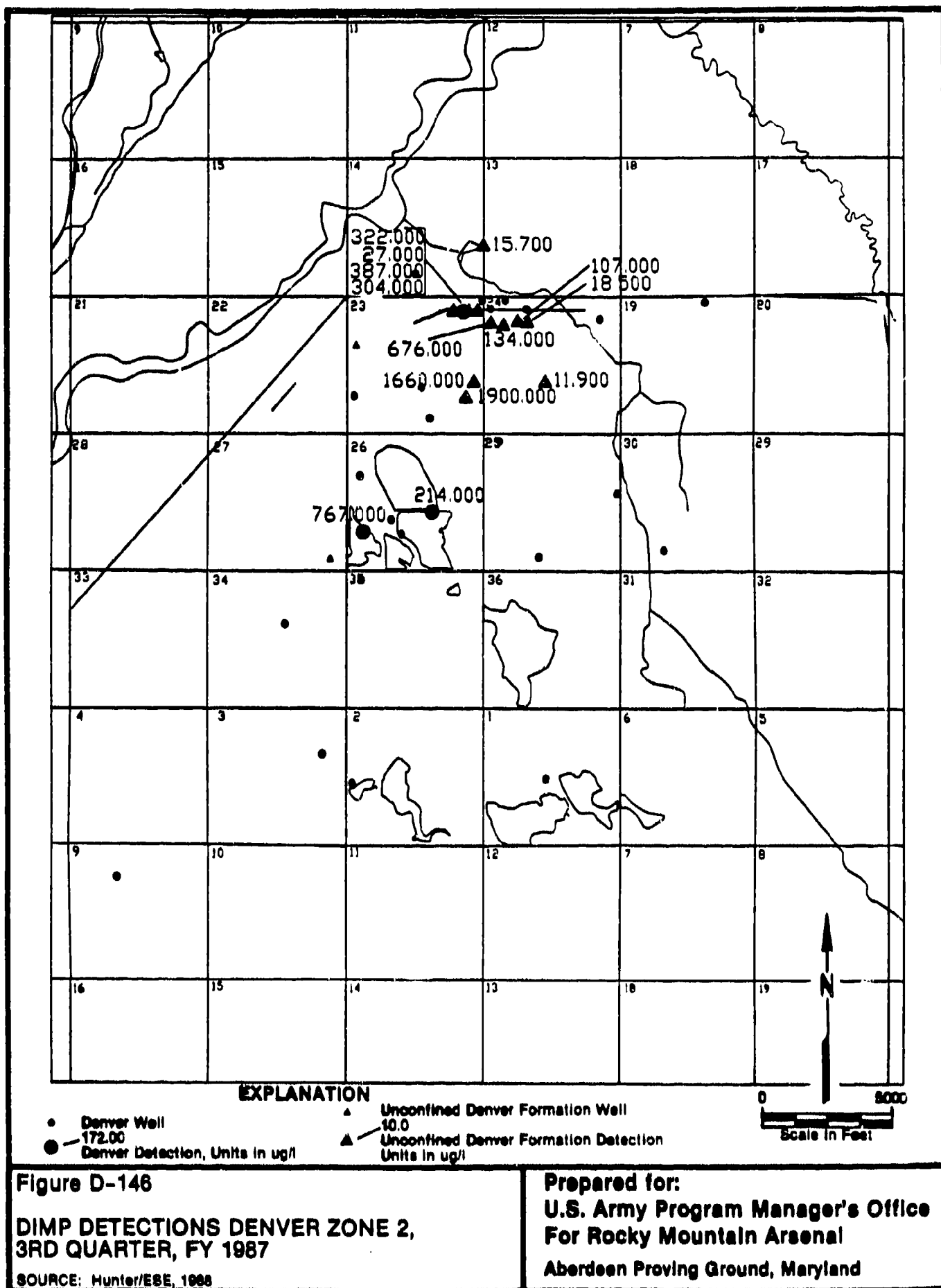
0 5000
Scale in Feet

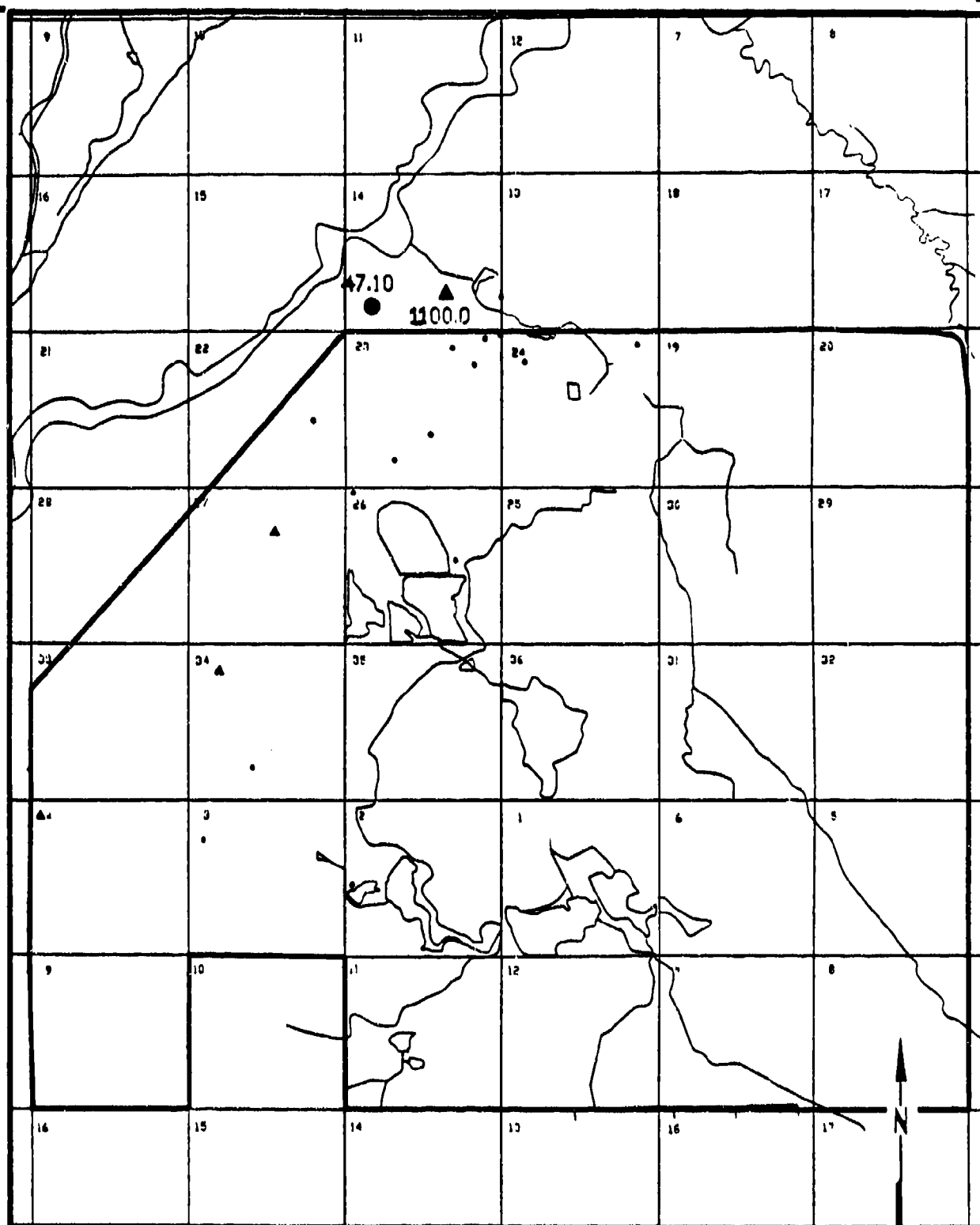
Figure D-145

DIMP DETECTIONS DENVER ZONE 1,
3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



**EXPLANATION**

- Denver Well
- 172.00 Denver Detection, Units in ug/l.

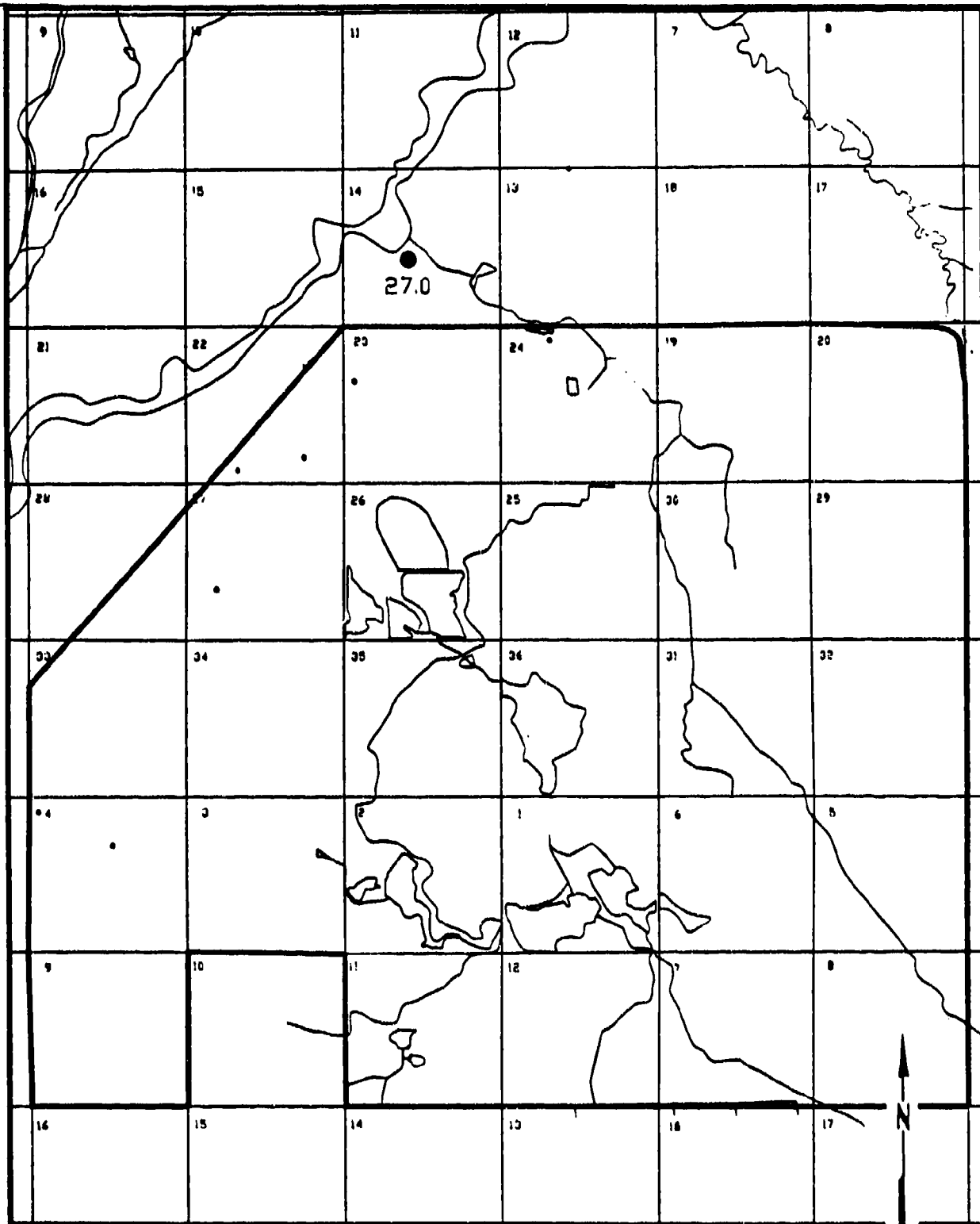
- ▲ Unconfined Denver Formation Well 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-147
DIMP DETECTIONS DENVER ZONE 3
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l.

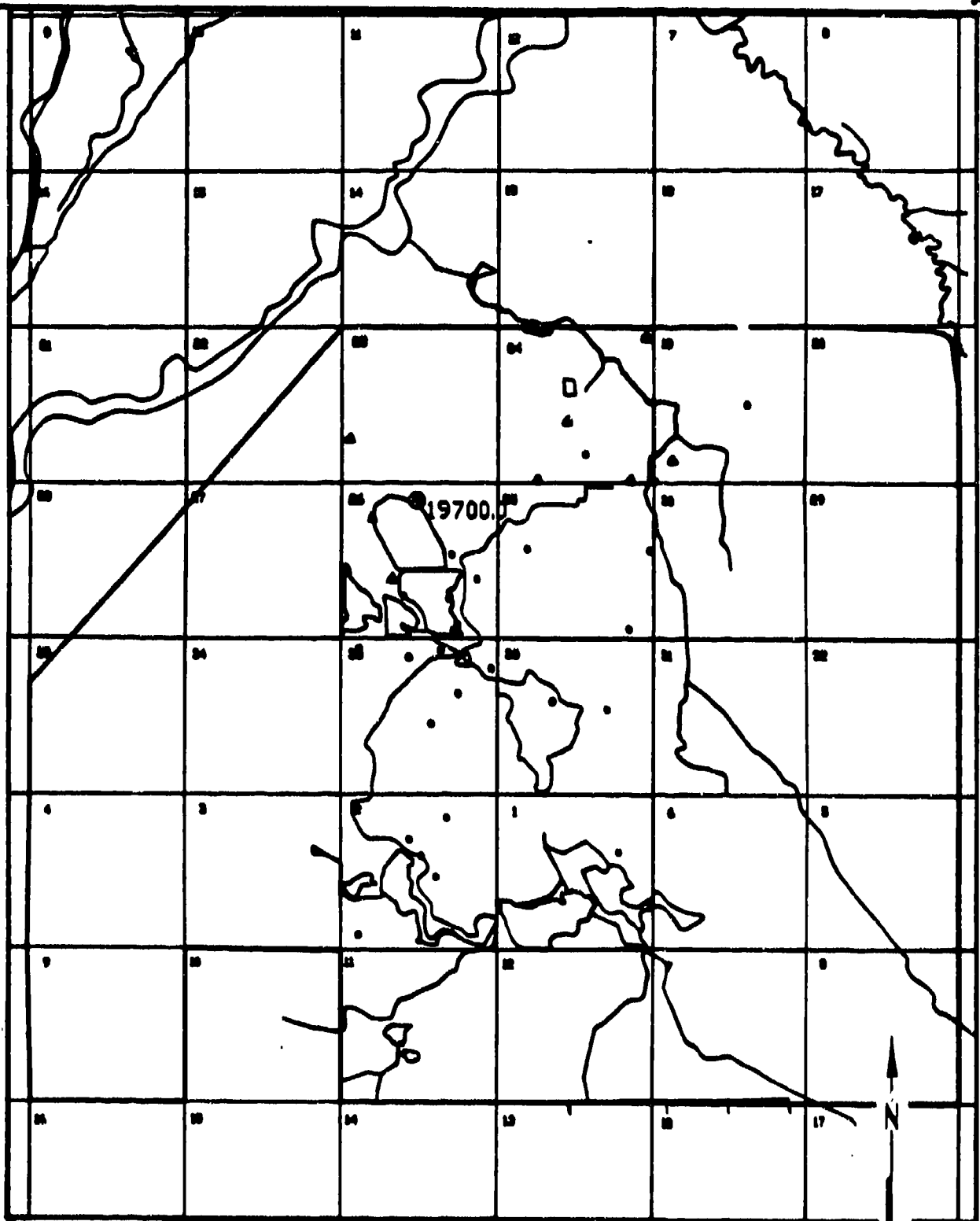
- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-148
DIMP DETECTIONS DENVER ZONE 5
3RD QUARTER FY 1987.

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

**EXPLANATION**

- Denver Well
- / 172.00 Denver Detection, Units in ug/l.

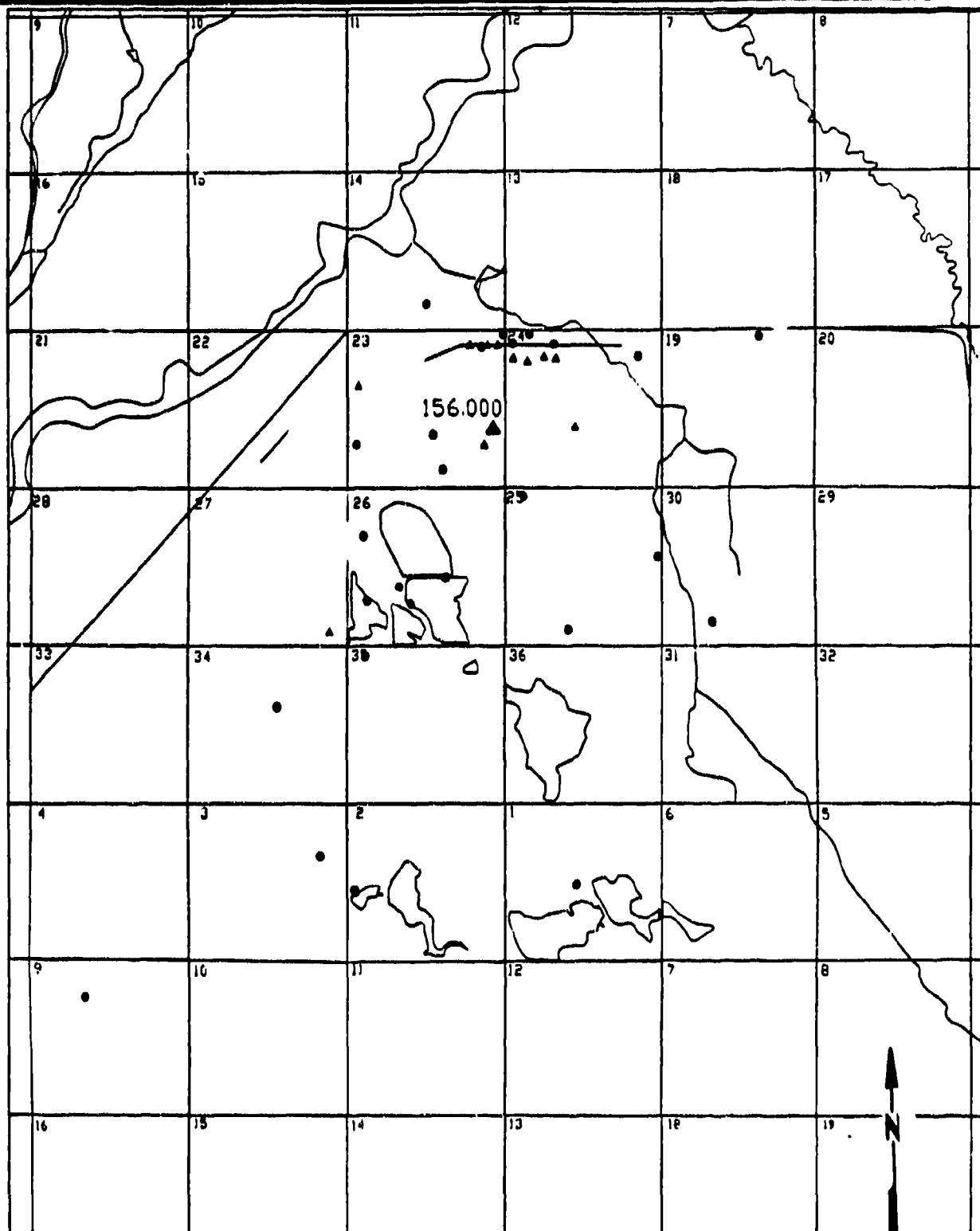
- ▲ Unconfined Denver Formation Well 10.0
- ▲ / Unconfined Denver Formation Detection, Units in ug/l.

0 5000
Scale in Feet

Figure D-149
DMMP DETECTIONS DENVER ZONE 1
3RD QUARTER FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- ▲ Units in ug/l

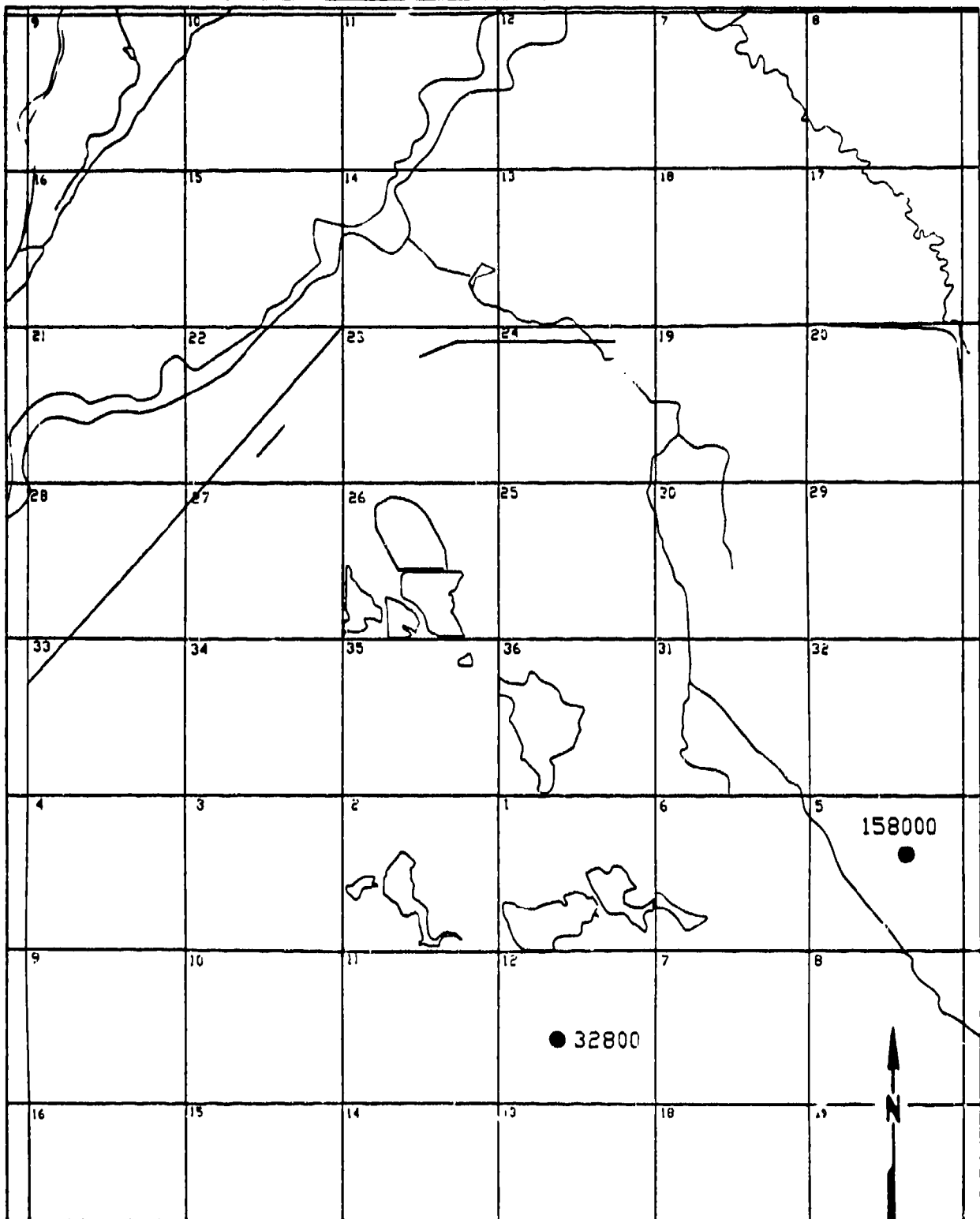
0 5000
Scale in Feet

Figure D-150

DMMP DETECTIONS DENVER ZONE 2,
3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well
- ▲ 30.0
- ▲ Unconfined Denver Formation Detection
- ▲ Units in ug/l

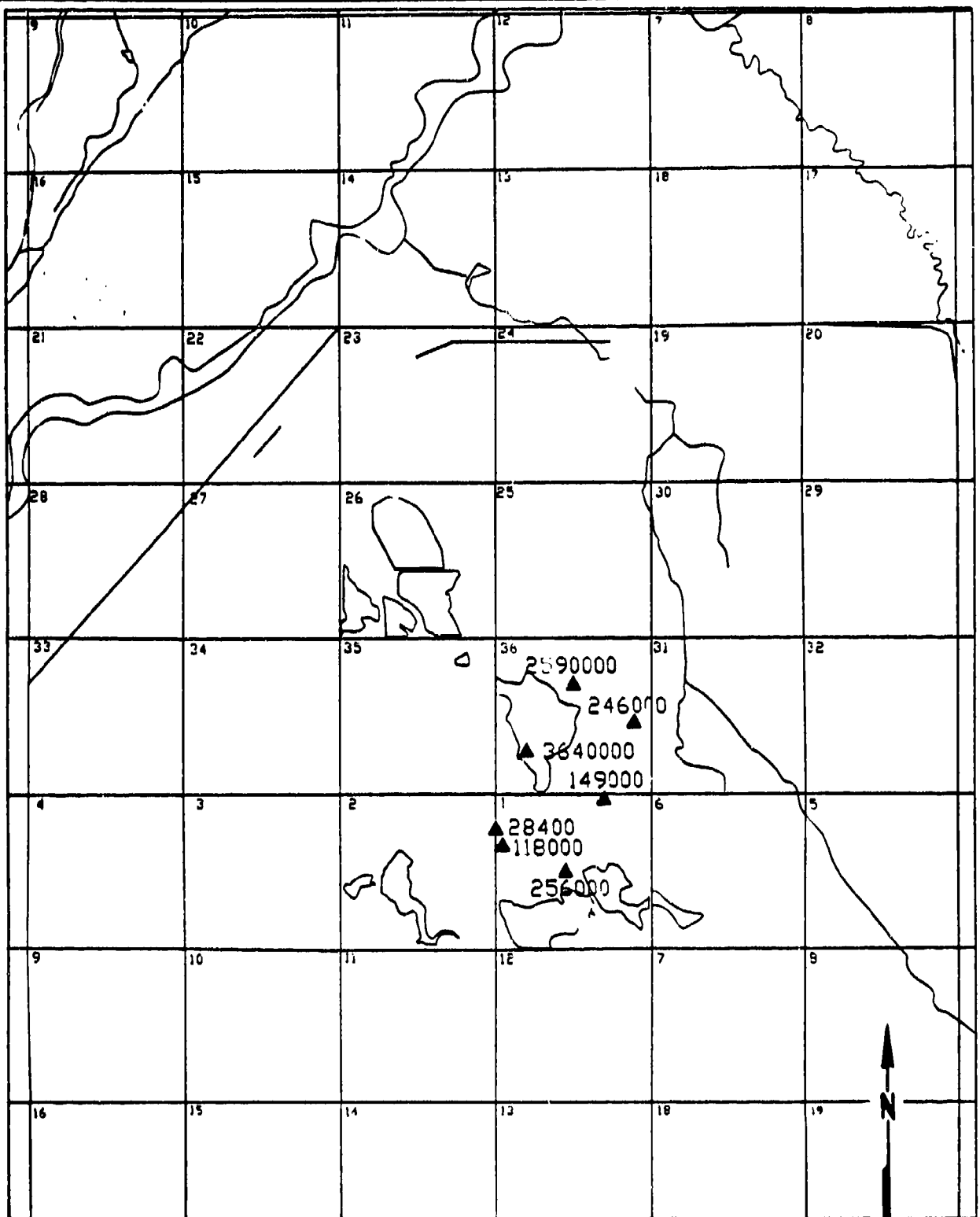
0 5000
Scale in Feet

Figure D-151

CHLORIDE DETECTIONS DENVER ZONE
B, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
10.0
- ▲ Unconfined Denver Formation Detection
Units in ug/l

0 8000
Scale in Feet

Figure D-152

**CHLORIDE DETECTIONS DENVER ZONE
VC/VCE, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

Prepared for:

**U.S. Army Program Manager's Office
For Rocky Mountain Arsenal**

Aberdeen Proving Ground, Maryland

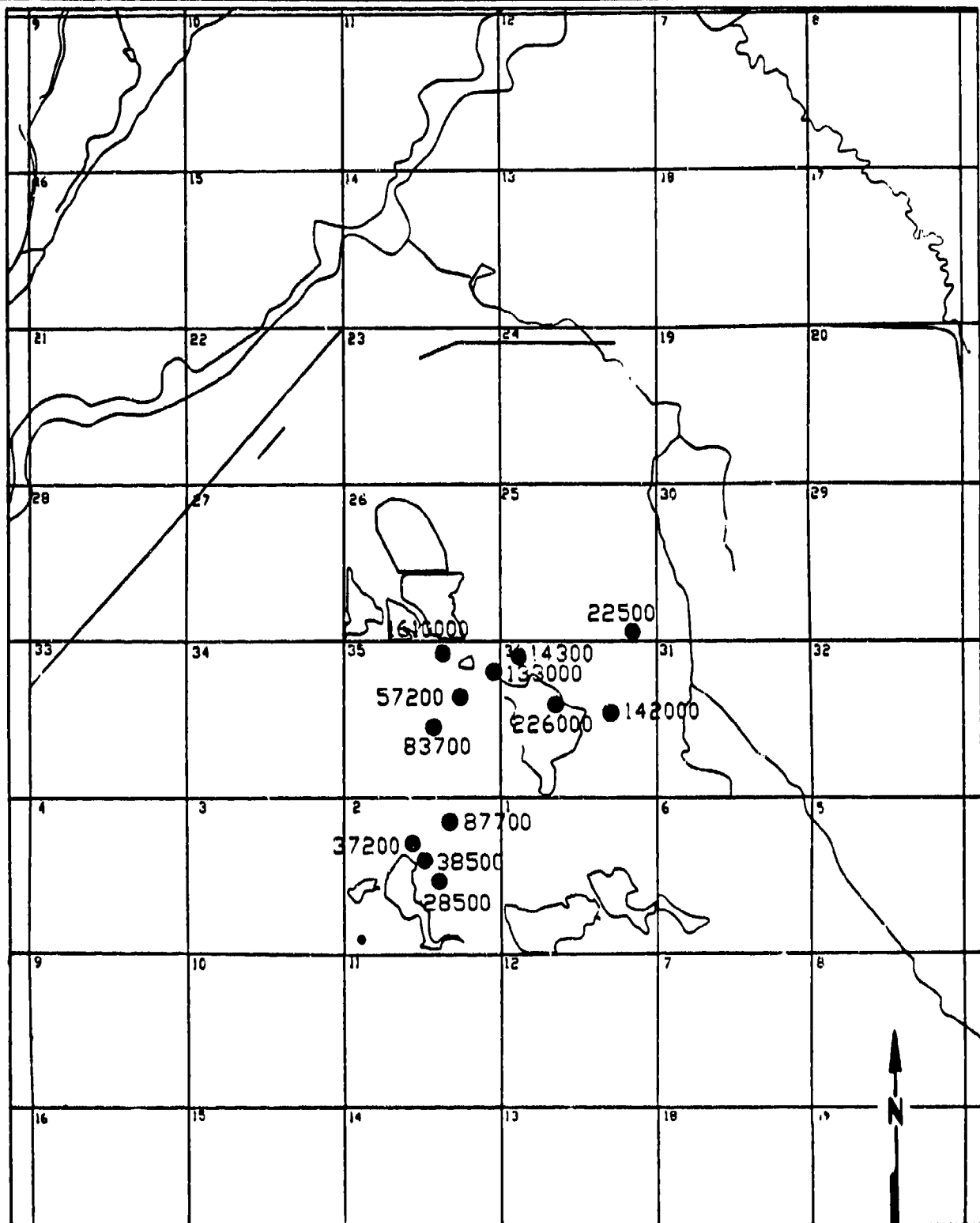
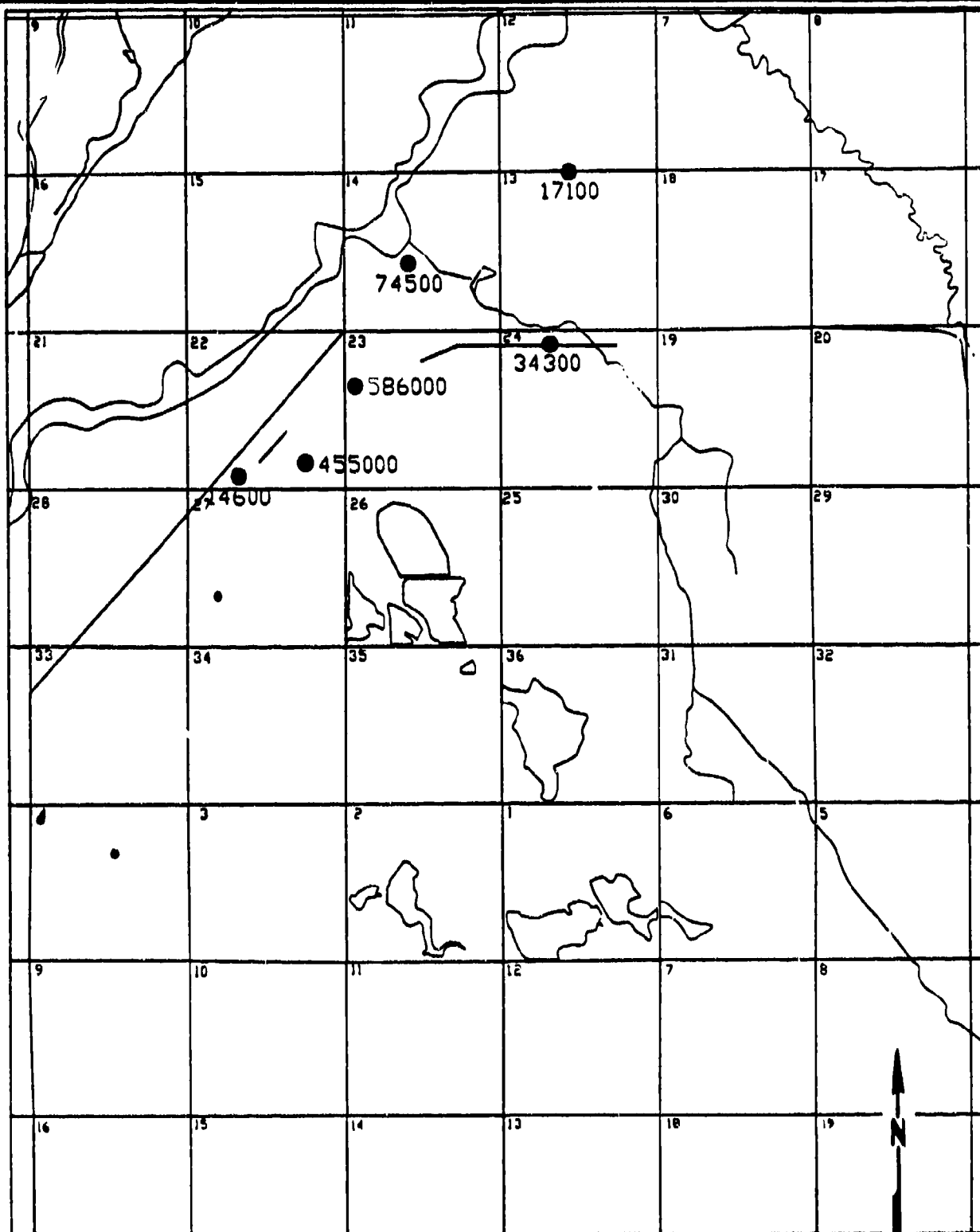


Figure D-153

CHLORIDE DETECTIONS DENVER ZONE
1U, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection Units in ug/l

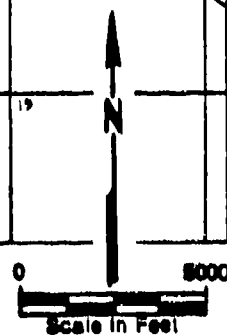
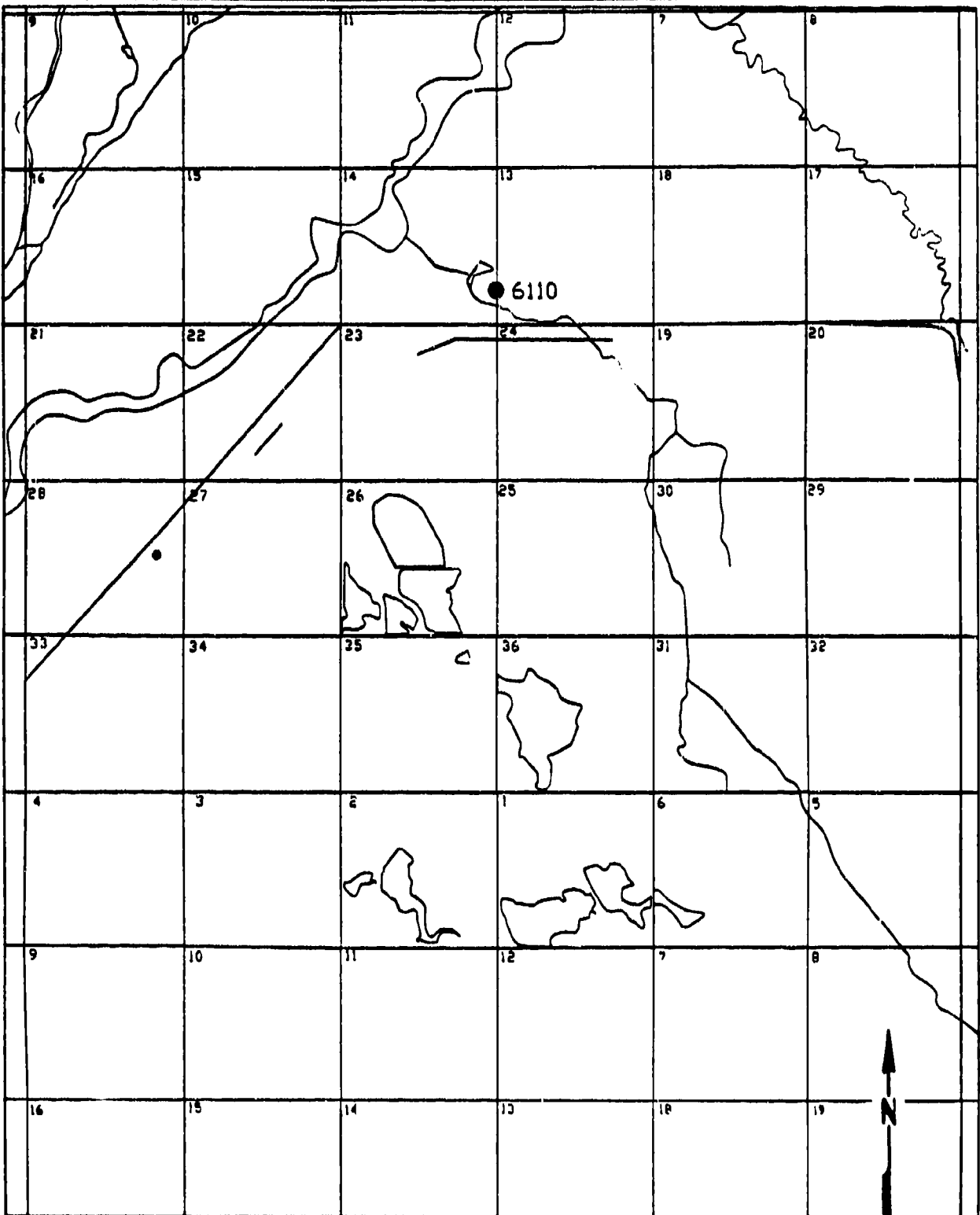


Figure D-154

**CHLORIDE DETECTIONS DENVER ZONE
5, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**



EXPLANATION

- Denver Well
172.00
Denver Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well
10.0
Unconfined Denver Formation Detection
Units in ug/l

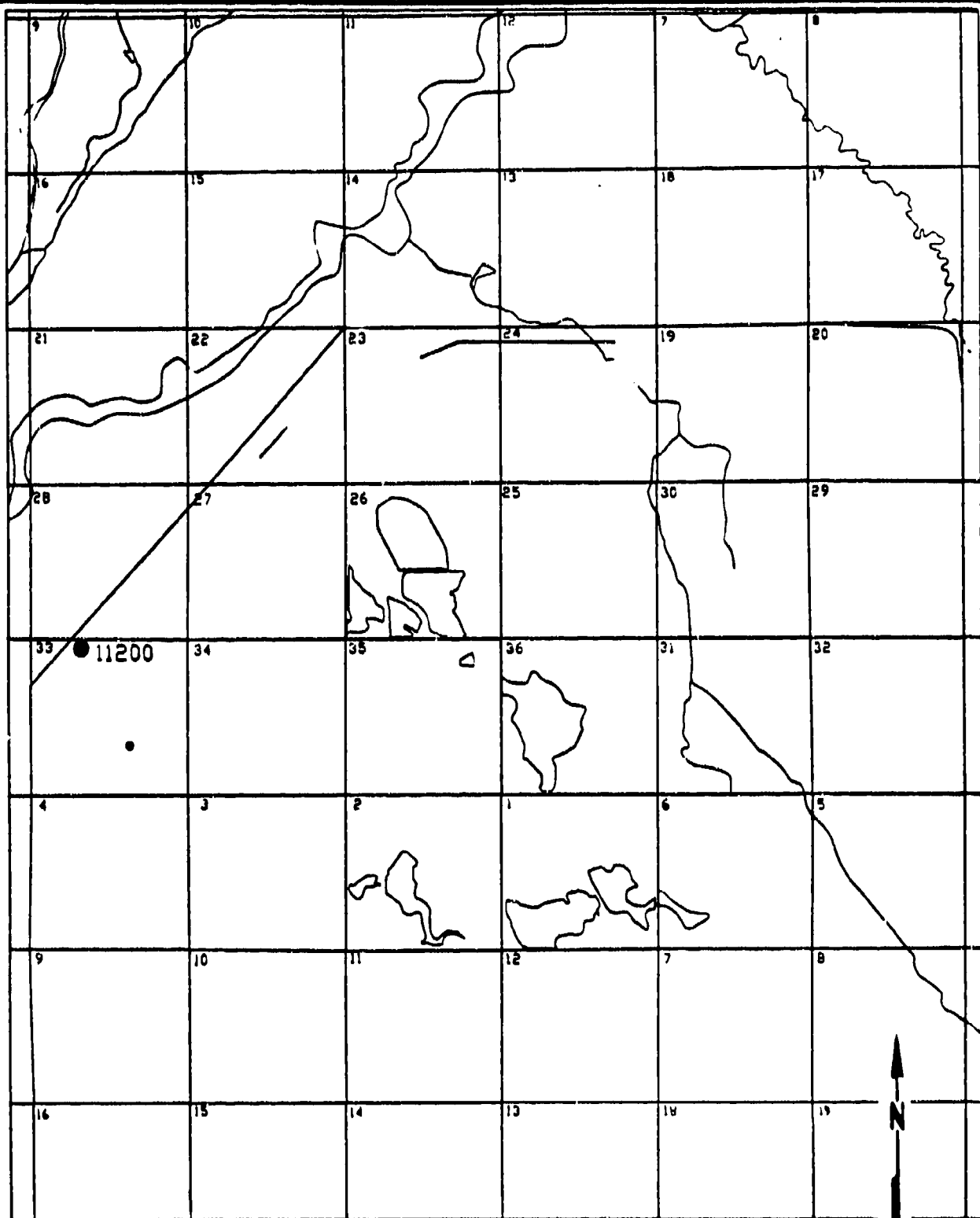
0 5000
Scale in Feet

Figure D-155

**CHLORIDE DETECTIONS DENVER ZONE
6, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**



EXPLANATION

- Denver Well 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well 10.0
- ▲ Unconfined Denver Formation Detection Units in ug/l

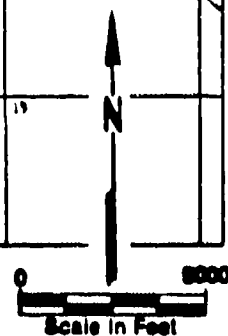
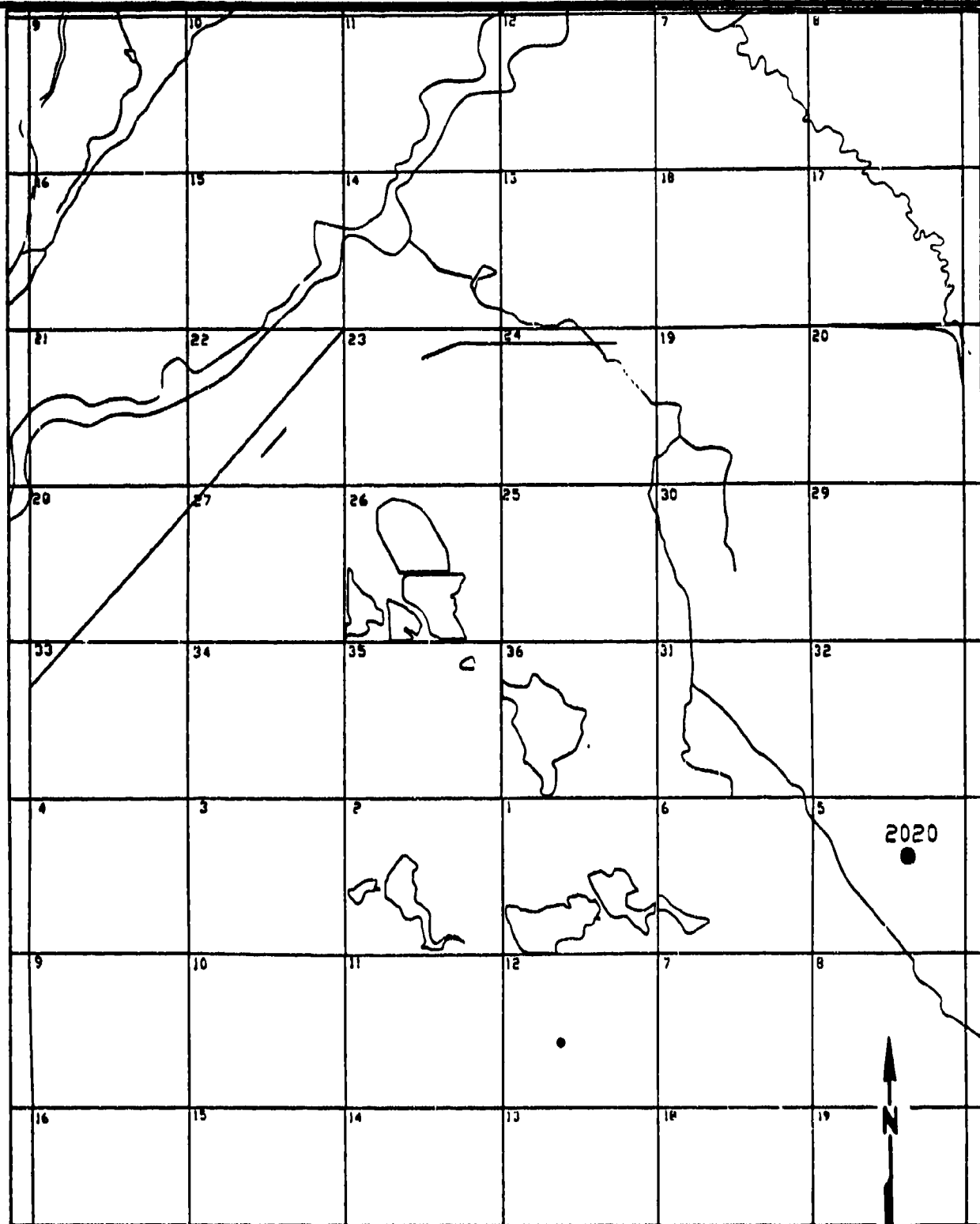


Figure D-156

**CHLORIDE DETECTIONS DENVER ZONE
7, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**



EXPLANATION

• Denver Well
 ● 172.00
 — Denver Detection, Units in ug/l

▲ Unconfined Denver Formation Well
 10.0
 ▲ Unconfined Denver Formation Detection
 Units in ug/l

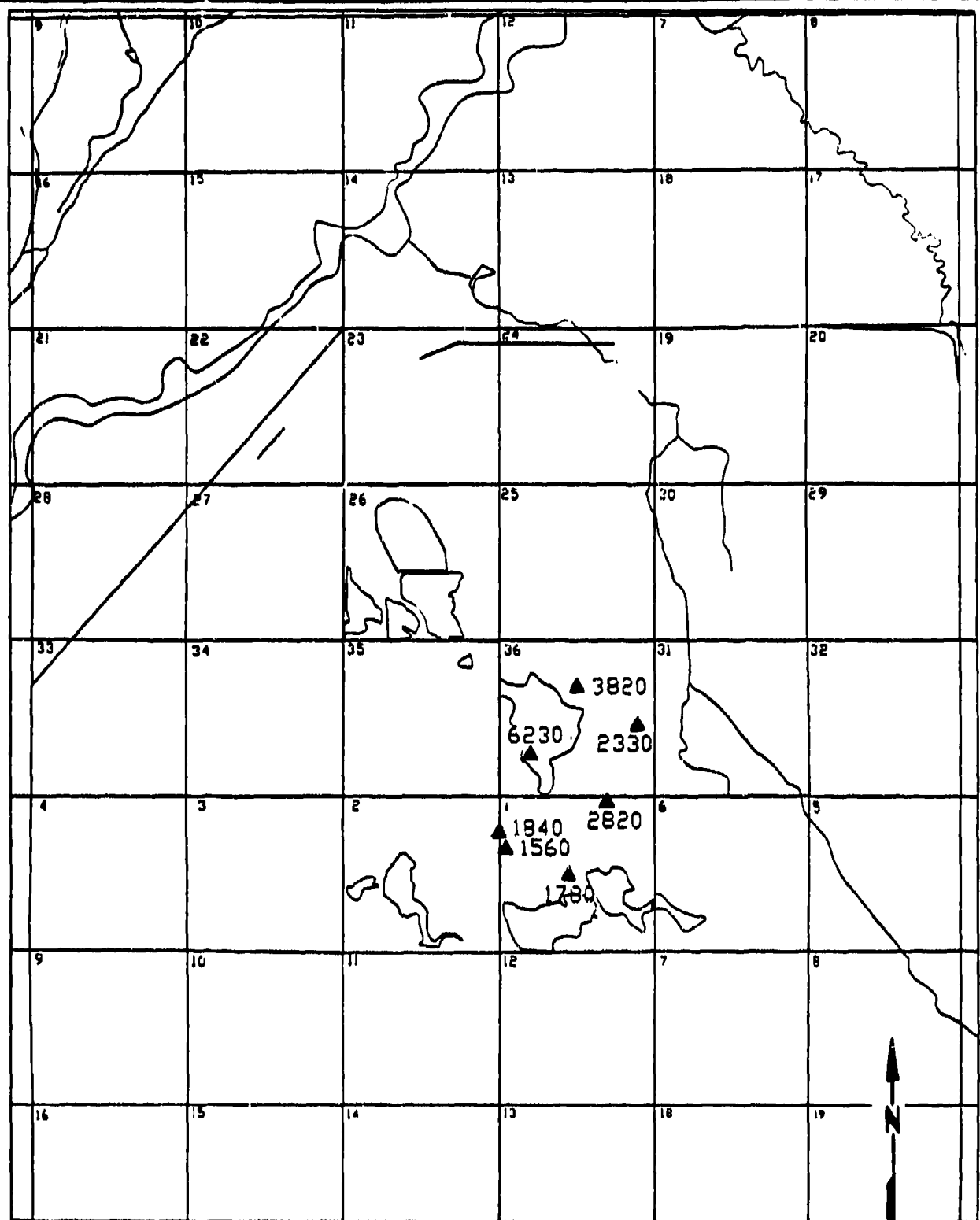
0 8000
 Scale in Feet

Figure D-157

**FLUORIDE DETECTIONS DENVER ZONE
 B, 3RD QUARTER, FY 1987**

SOURCE: Hunter/EBE, 1988

**Prepared for:
 U.S. Army Program Manager's Office
 For Rocky Mountain Arsenal
 Aberdeen Proving Ground, Maryland**



EXPLANATION

- Denver Well
172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
10.0
- ▲ Unconfined Denver Formation Detection
Units in ug/l

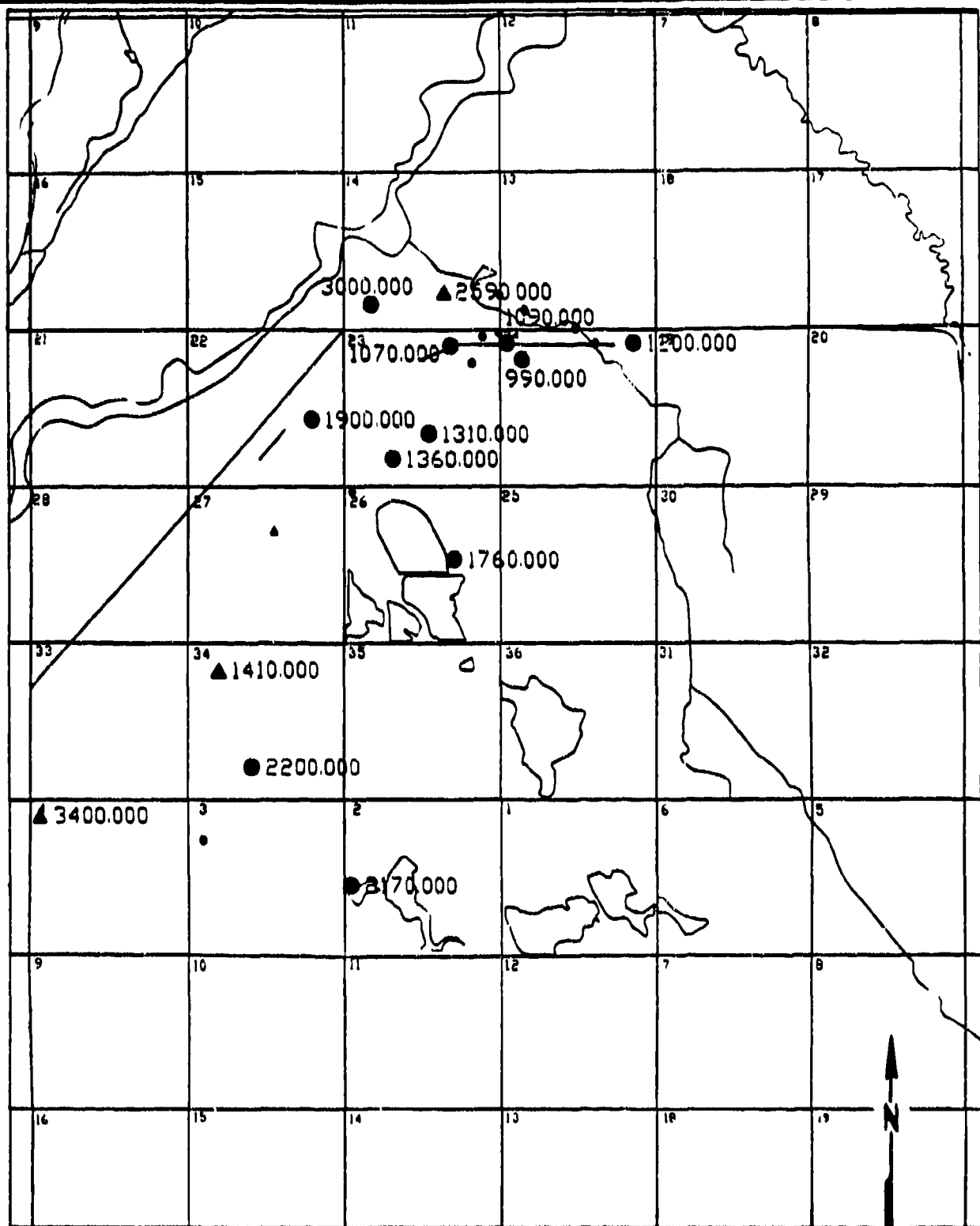
0 5000
Scale in Feet

Figure D-158

**FLUORIDE DETECTIONS DENVER ZONE
VC/VCE, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- Units in ug/l

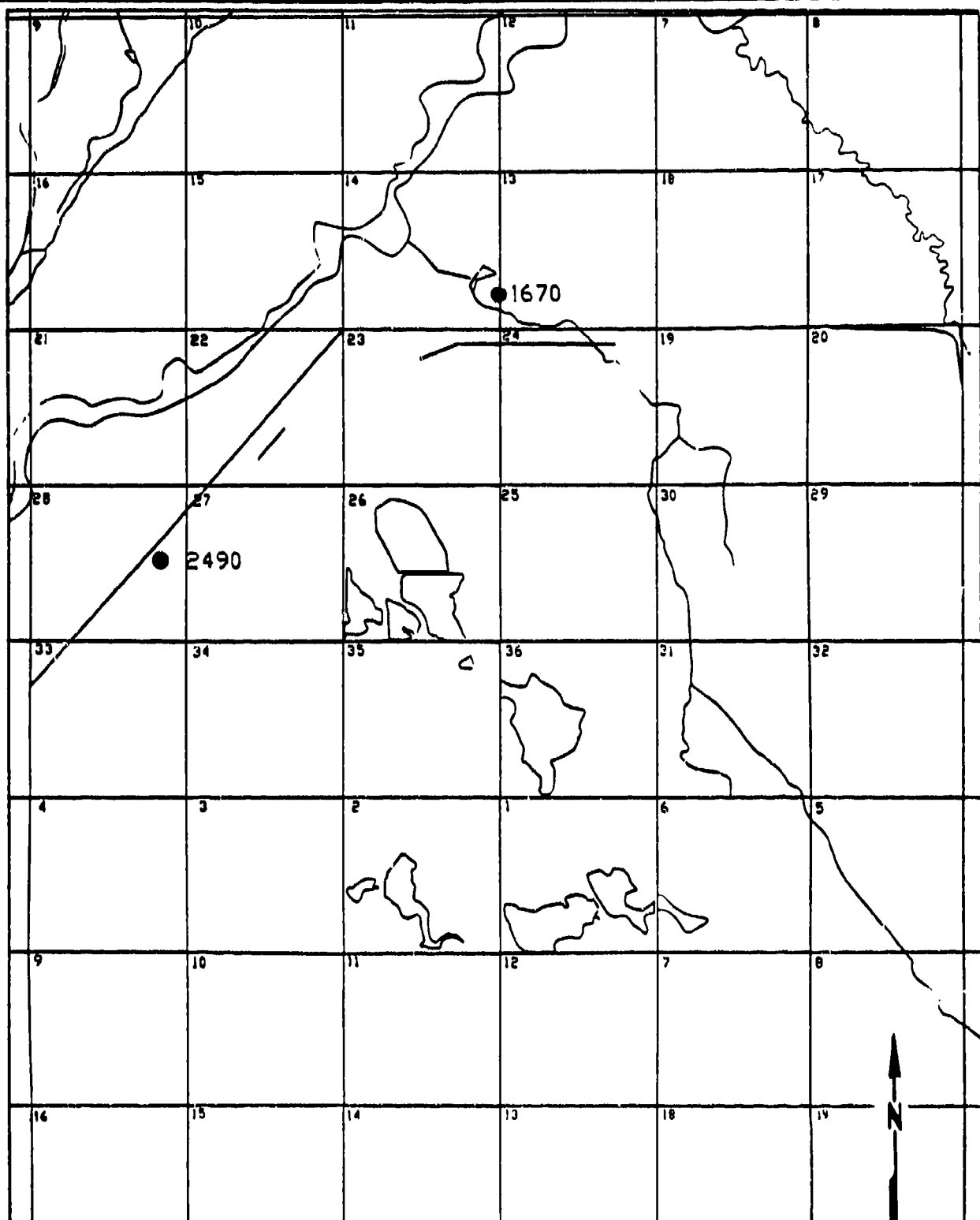
0 8000
Scale in Feet

Figure D-159

FLUORIDE DETECTIONS DENVER ZONE
3, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
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Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection Units in ug/l

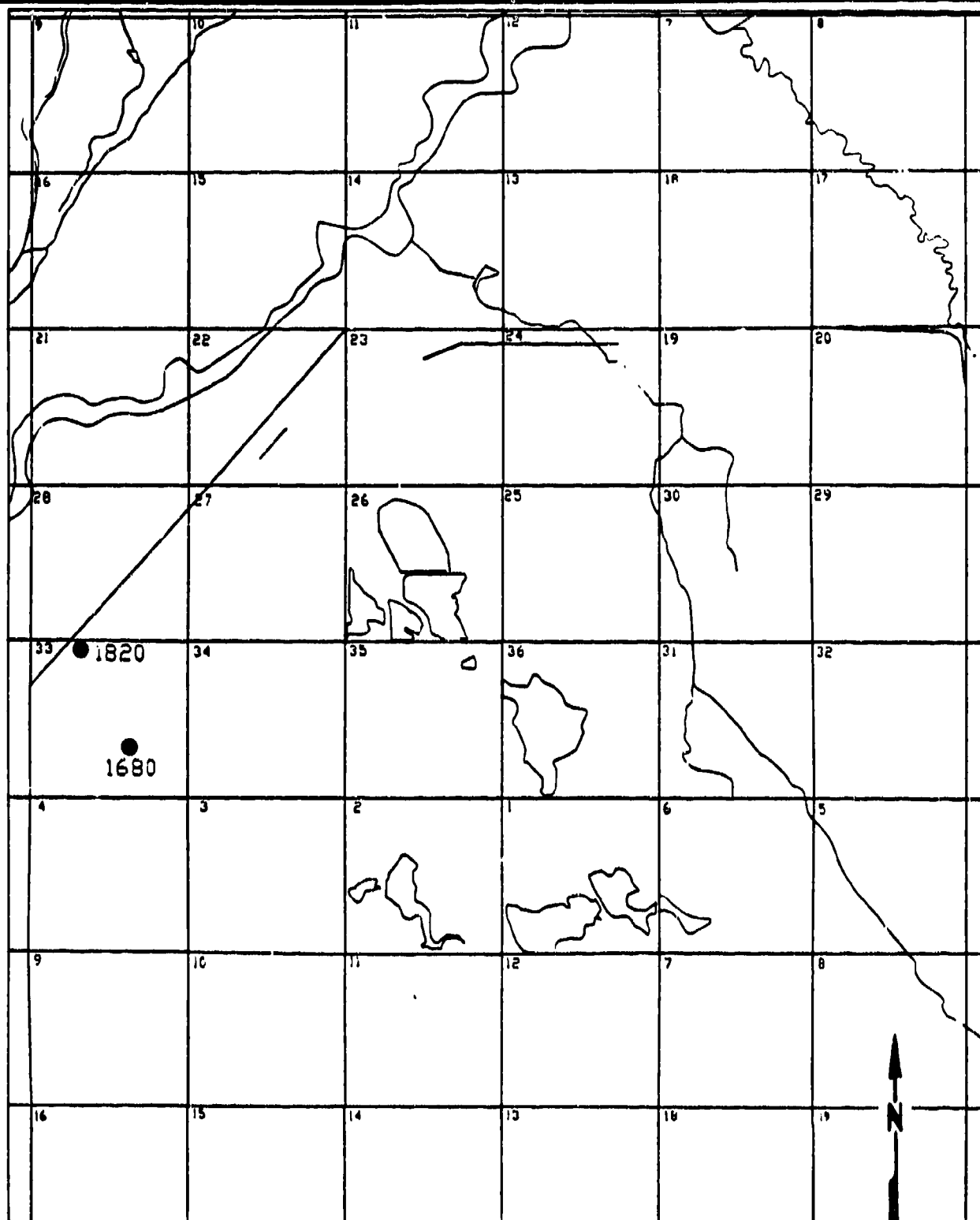
0 8000
Scale in Feet

Figure D-160

FLUORIDE DETECTIONS DENVER ZONE
6, 3RD QUARTER, FY 1987

SOURCE: Hunter/ESE, 1988

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- Units in ug/l

0 5000
Scale in Feet

Figure D-161

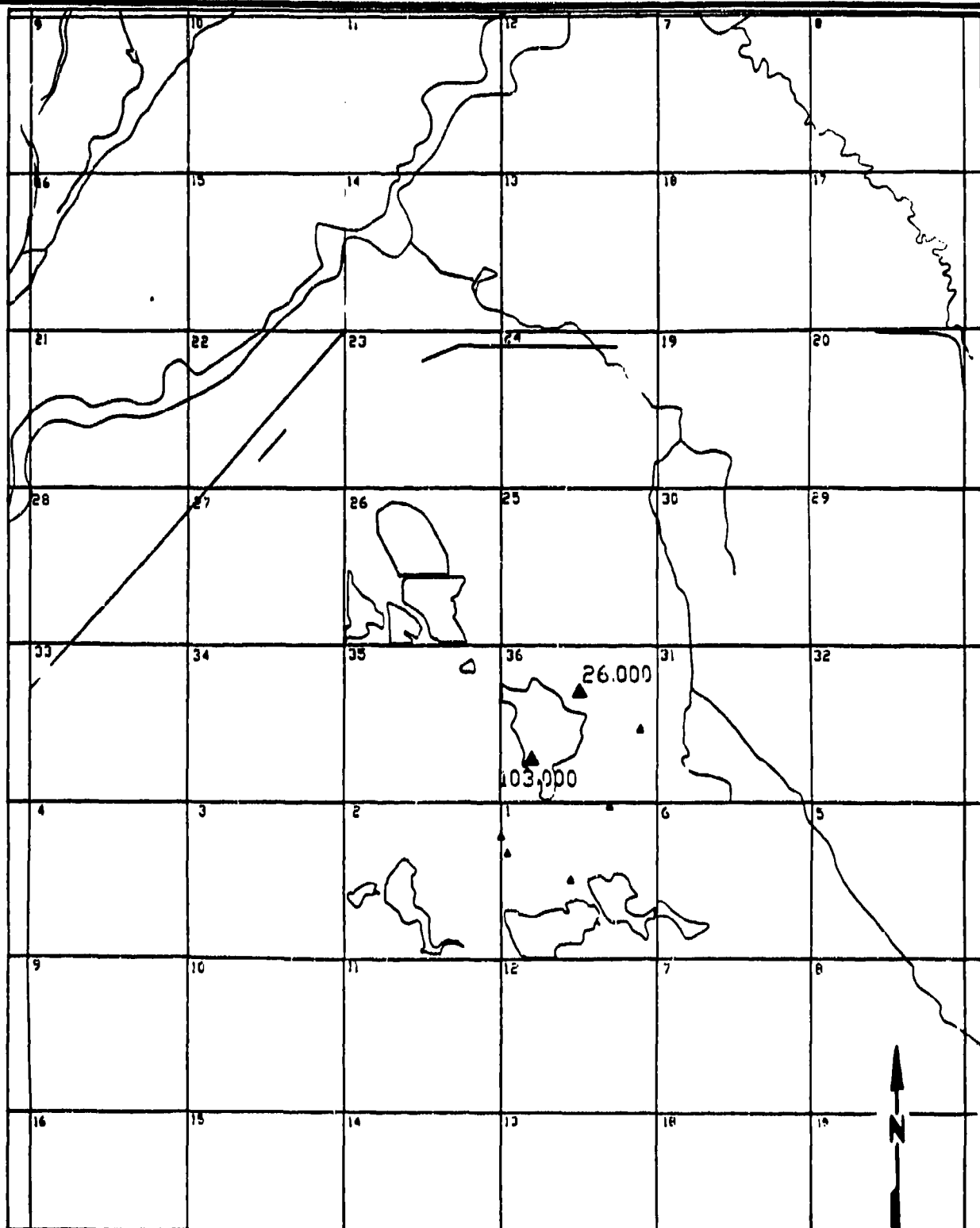
**FLUORIDE DETECTIONS DENVER ZONE
7, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

Prepared for:

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For Rocky Mountain Arsenal**

Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l
- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection Units in ug/l

0 8000
Scale in Feet

Figure D-162

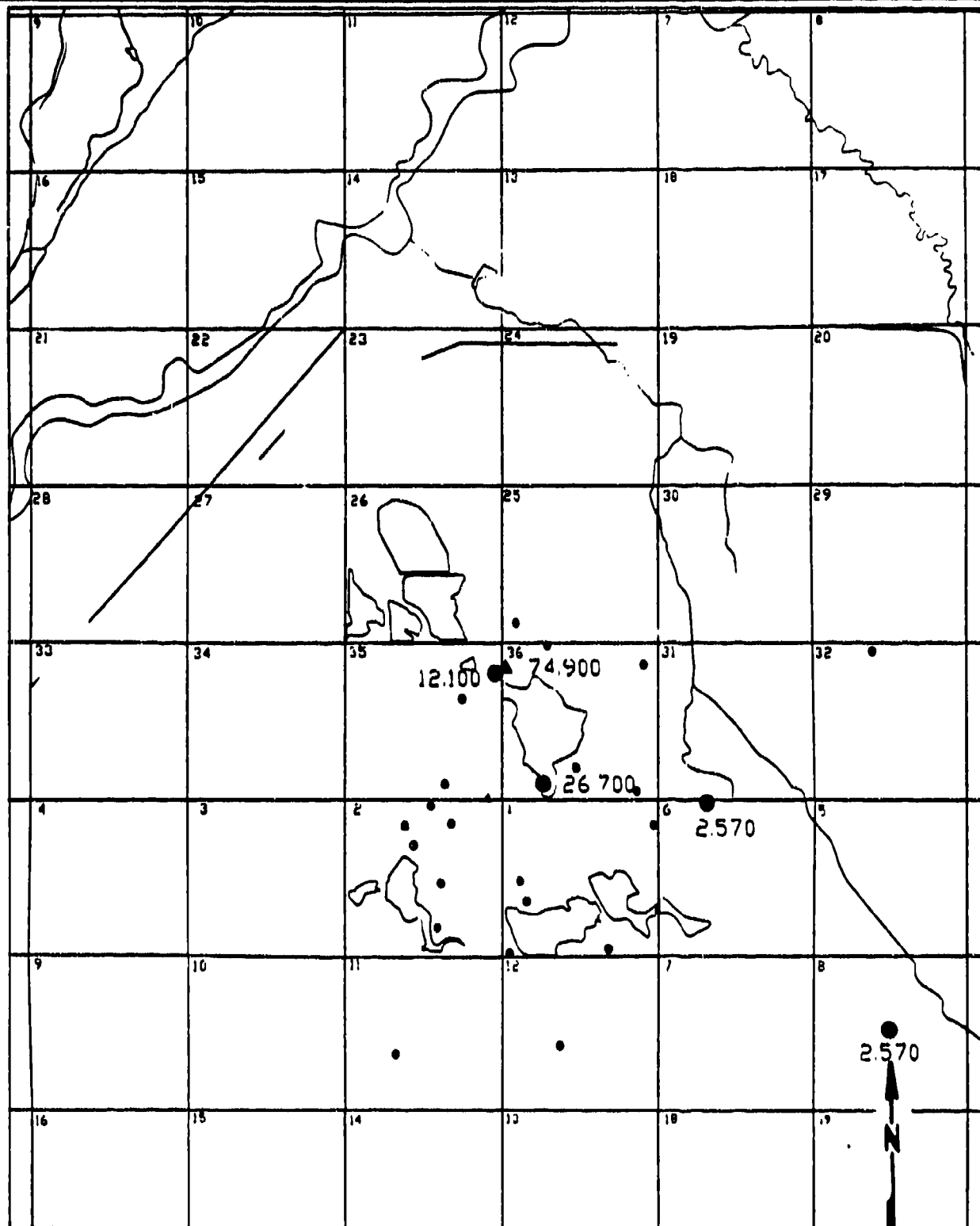
**ARSENIC DETECTIONS DENVER ZONE
VC/VCE, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

Prepared for:

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EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- Units in ug/l

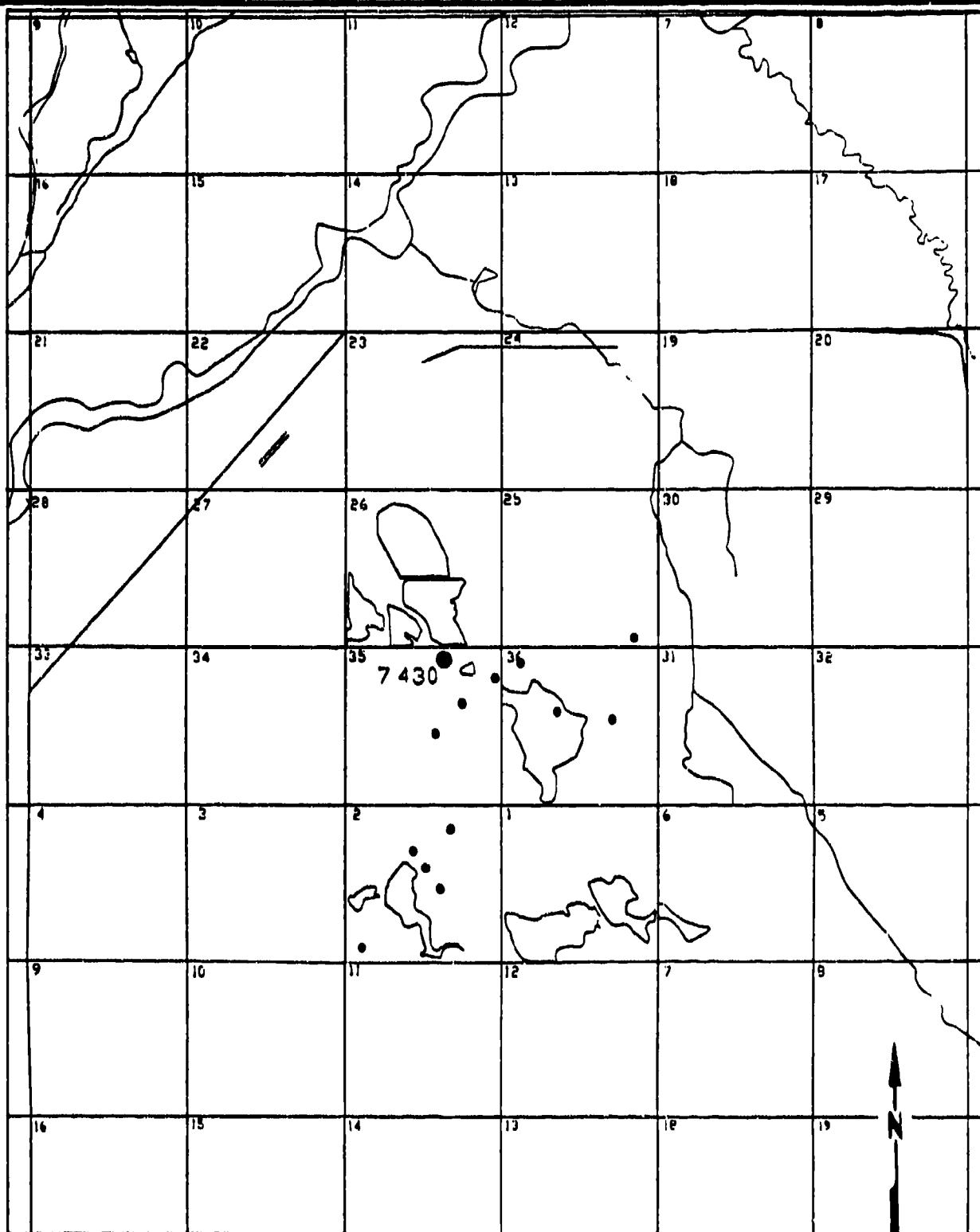


Figure D-163

**ARSENIC DETECTIONS DENVER ZONE
A, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

Prepared for:
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Aberdeen Proving Ground, Maryland



EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- ▲ Units in ug/l

0 5000
Scale in Feet

Figure D-164

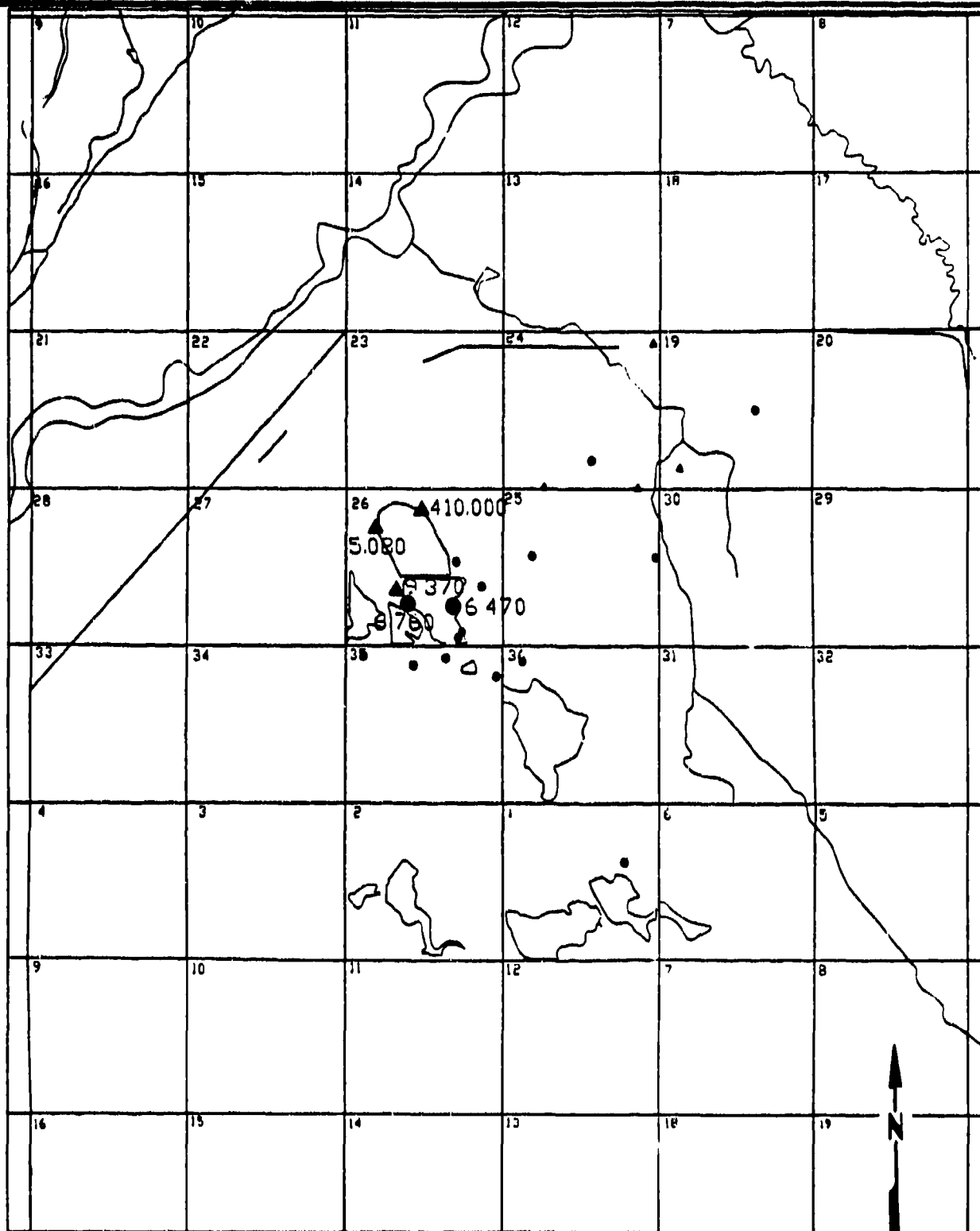
**ARSENIC DETECTIONS DENVER ZONE
1U, 3RD QUARTER, FY 1987**

SOURCE: Hunter/EBE, 1988

Prepared for:

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EXPLANATION

- Denver Well
- 172.00
- Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
- ▲ Unconfined Denver Formation Detection
- Units in ug/l

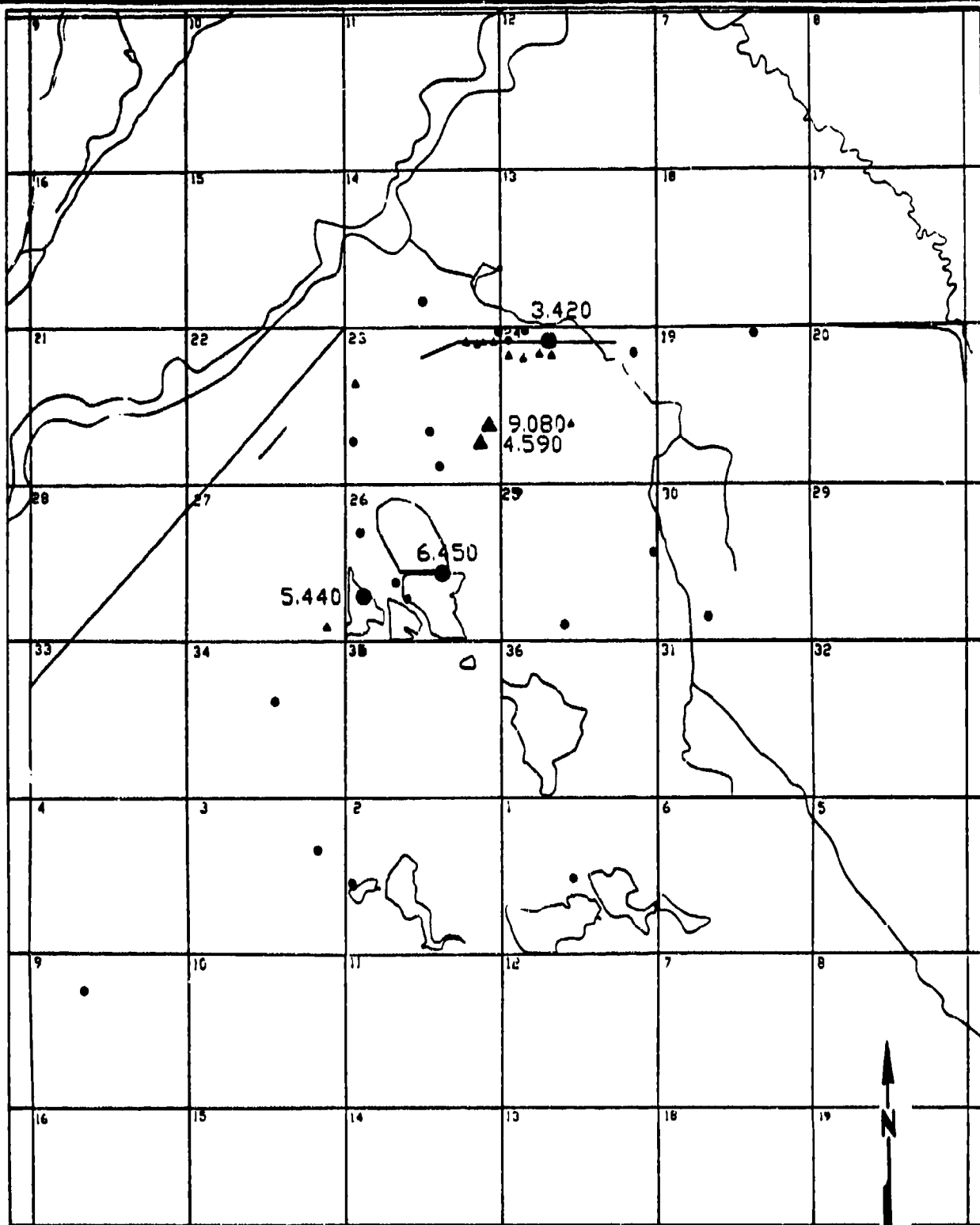
0 8000
Scale in Feet

Figure D-165

**ARSENIC DETECTIONS DENVER ZONE
1, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland**



EXPLANATION

- Denver Well
- 172.00 Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0 Unconfined Denver Formation Detection Units in ug/l

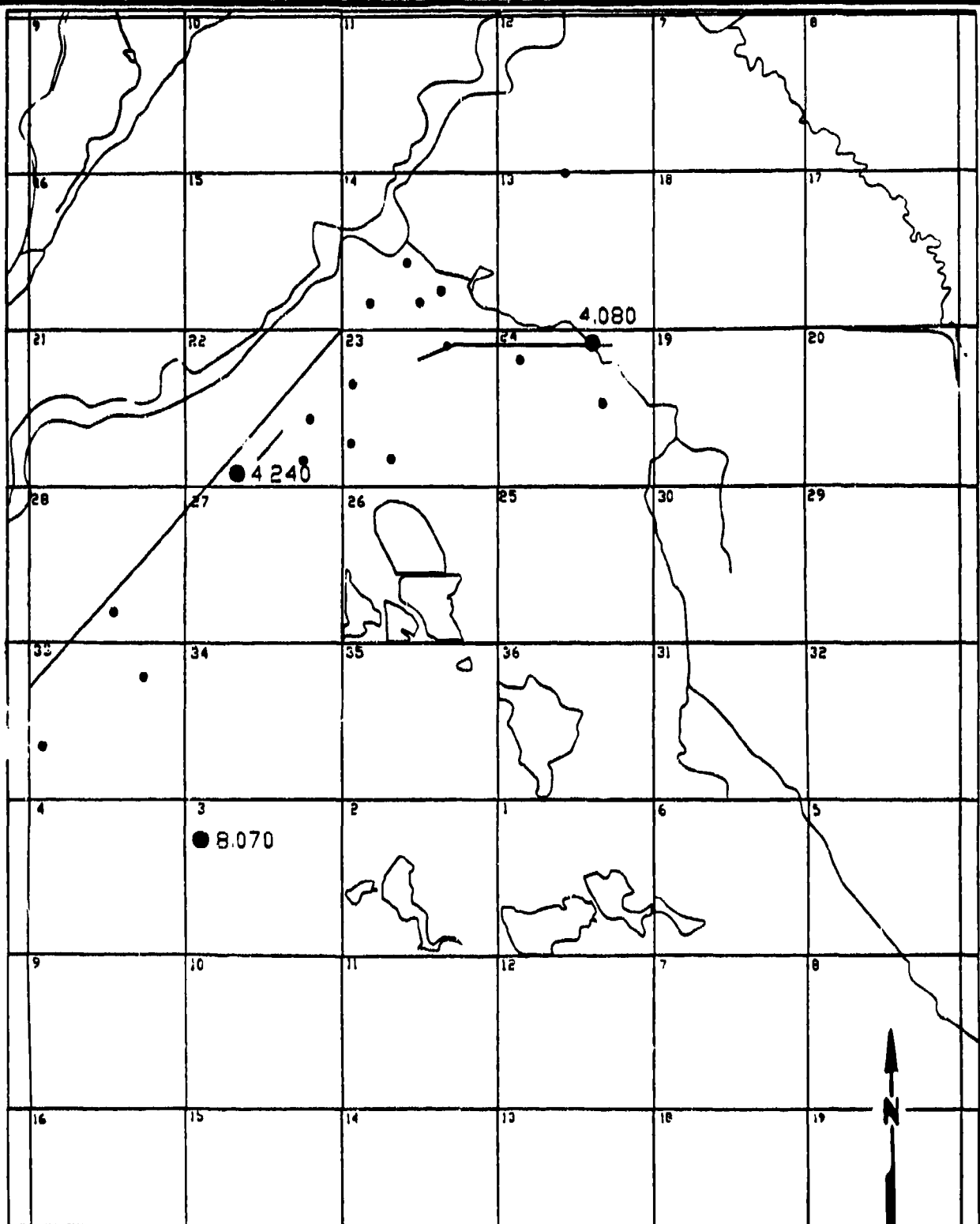
0 8000
Scale in Feet

Figure D-166

**ARSENIC DETECTIONS DENVER ZONE
2, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
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EXPLANATION

- Denver Well
- 172.00
Denver Detection, Units in ug/l

- ▲ Unconfined Denver Formation Well
- ▲ 10.0
Unconfined Denver Formation Detection
Units in ug/l

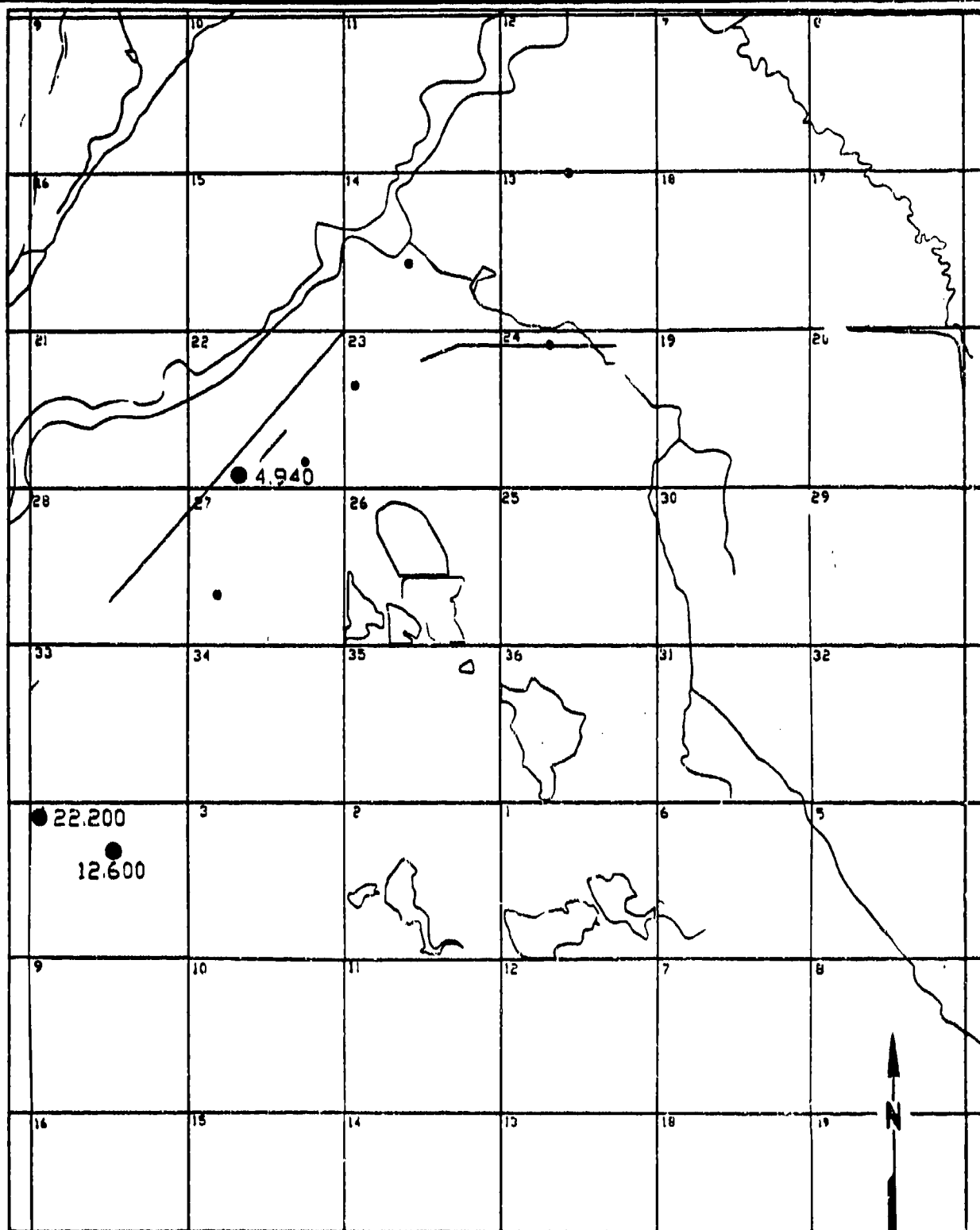
0 8000
Scale in Feet

Figure D-167

**ARSENIC DETECTIONS DENVER ZONE
4, 3RD QUARTER, FY 1987**

SOURCE: Hunter/ESE, 1988

**Prepared for:
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Aberdeen Proving Ground, Maryland**



EXPLANATION

● Denver Well
172.00
● Denver Detection, Units in ug/l

▲ Unconfined Denver Formation Well
10.0
▲ Unconfined Denver Formation Detection
Units in ug/l

0 8000
Scale in Feet

Figure D-168

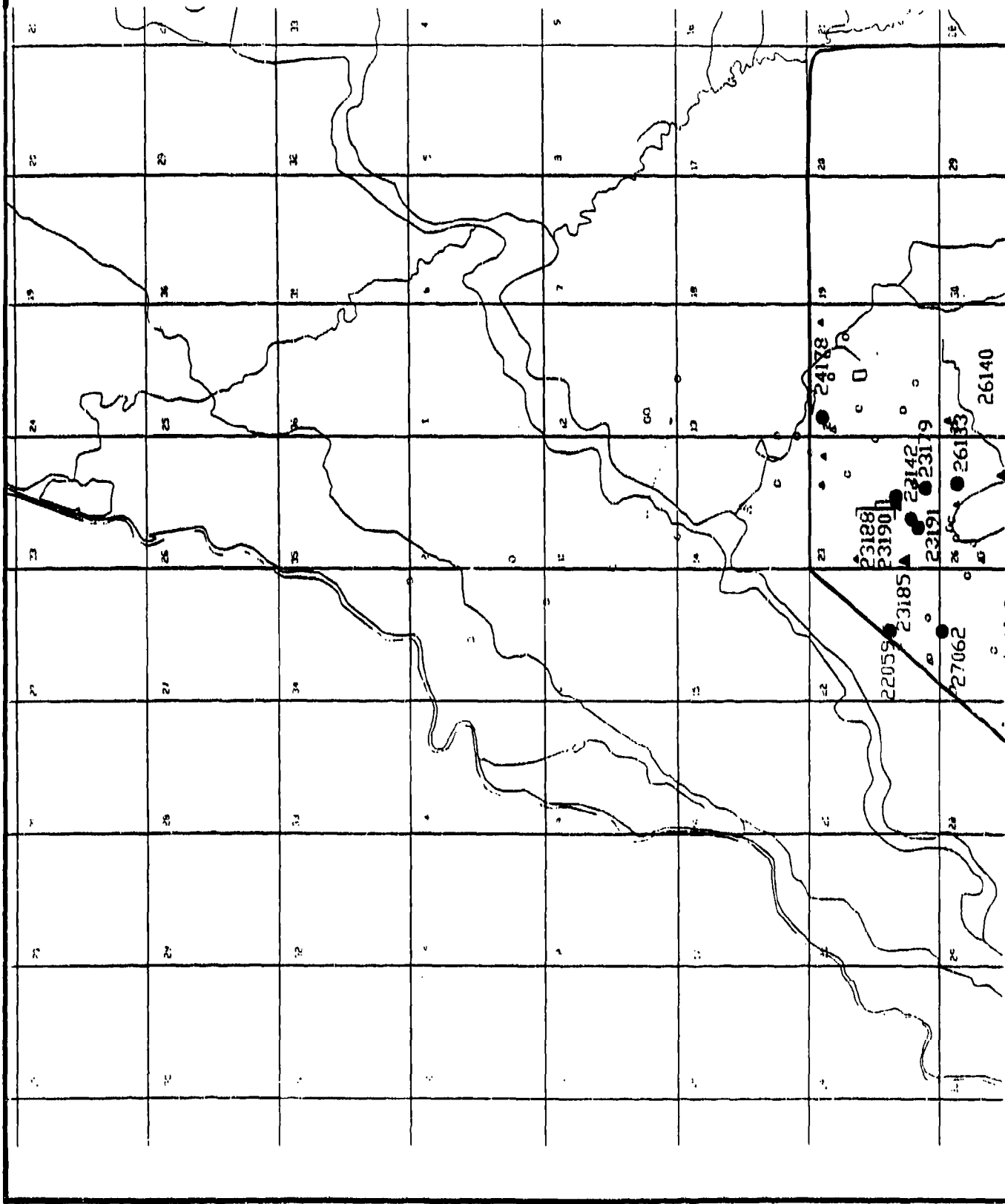
**ARSENIC DETECTIONS DENVER ZONE
5, 3RD QUARTER, FY 1987**

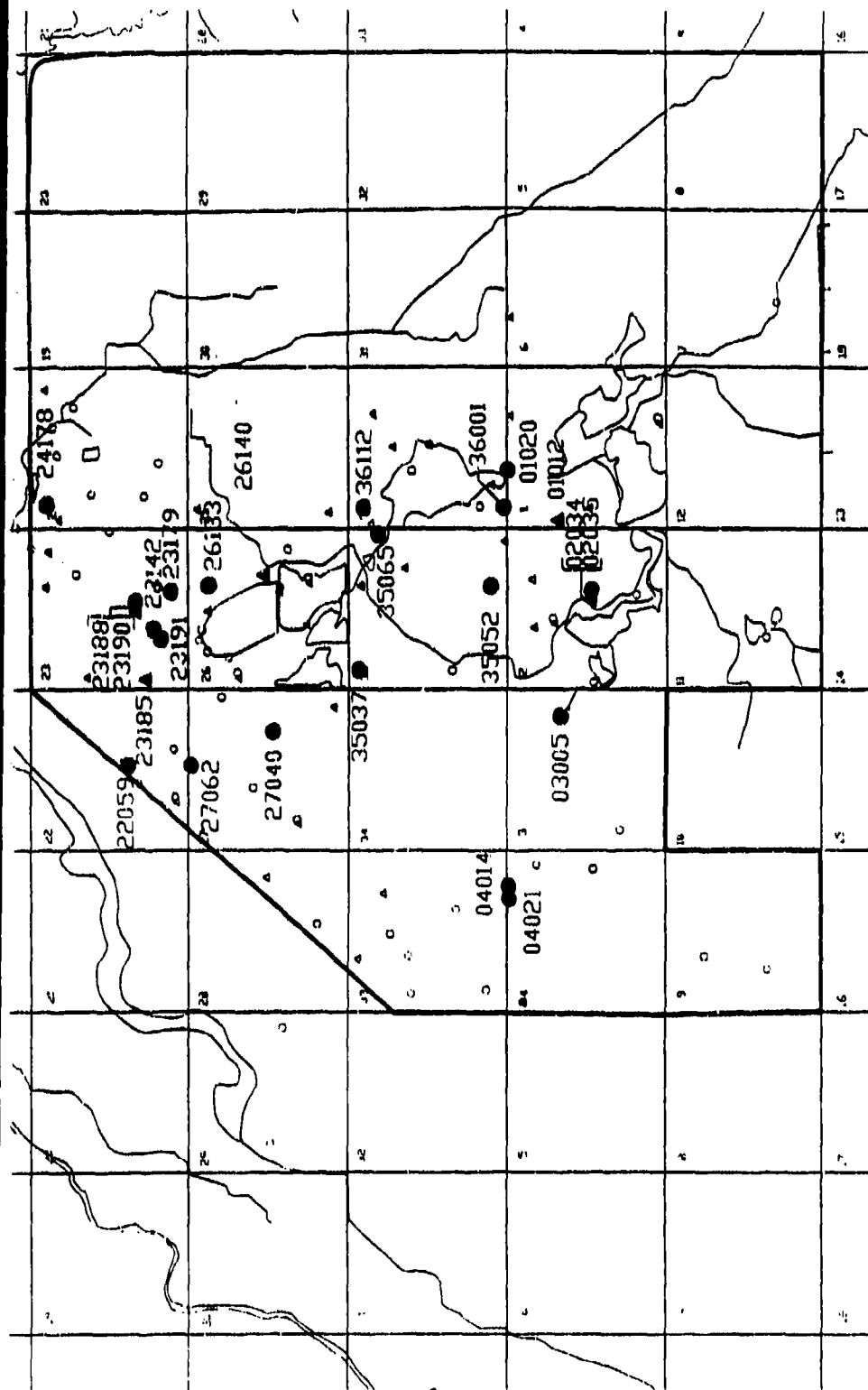
SOURCE: Hunter/ESE, 1988

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Aberdeen Proving Ground, Maryland**

**APPENDIX D.6: TASK 4/44 GC/MS ANALYSIS
NETWORK DETECTION (D-169 TO D-188)**

640, I 44





EXPLANATION

- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

Figure D-169

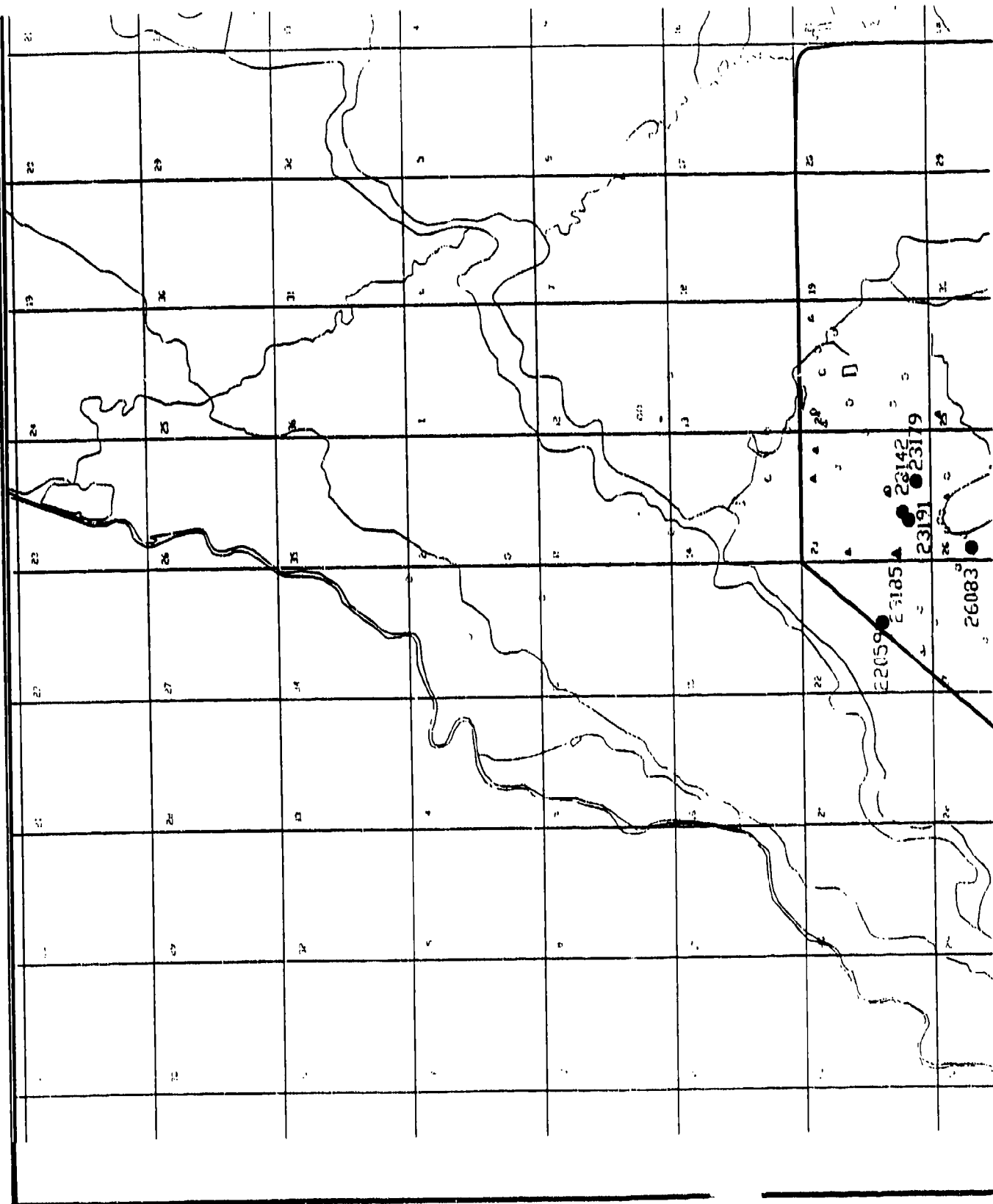
TASK 4/44 GC/MS ANALYSIS NETWORK, 1,1,2,2-TETRACHLOROETHANE
DETECTIONS

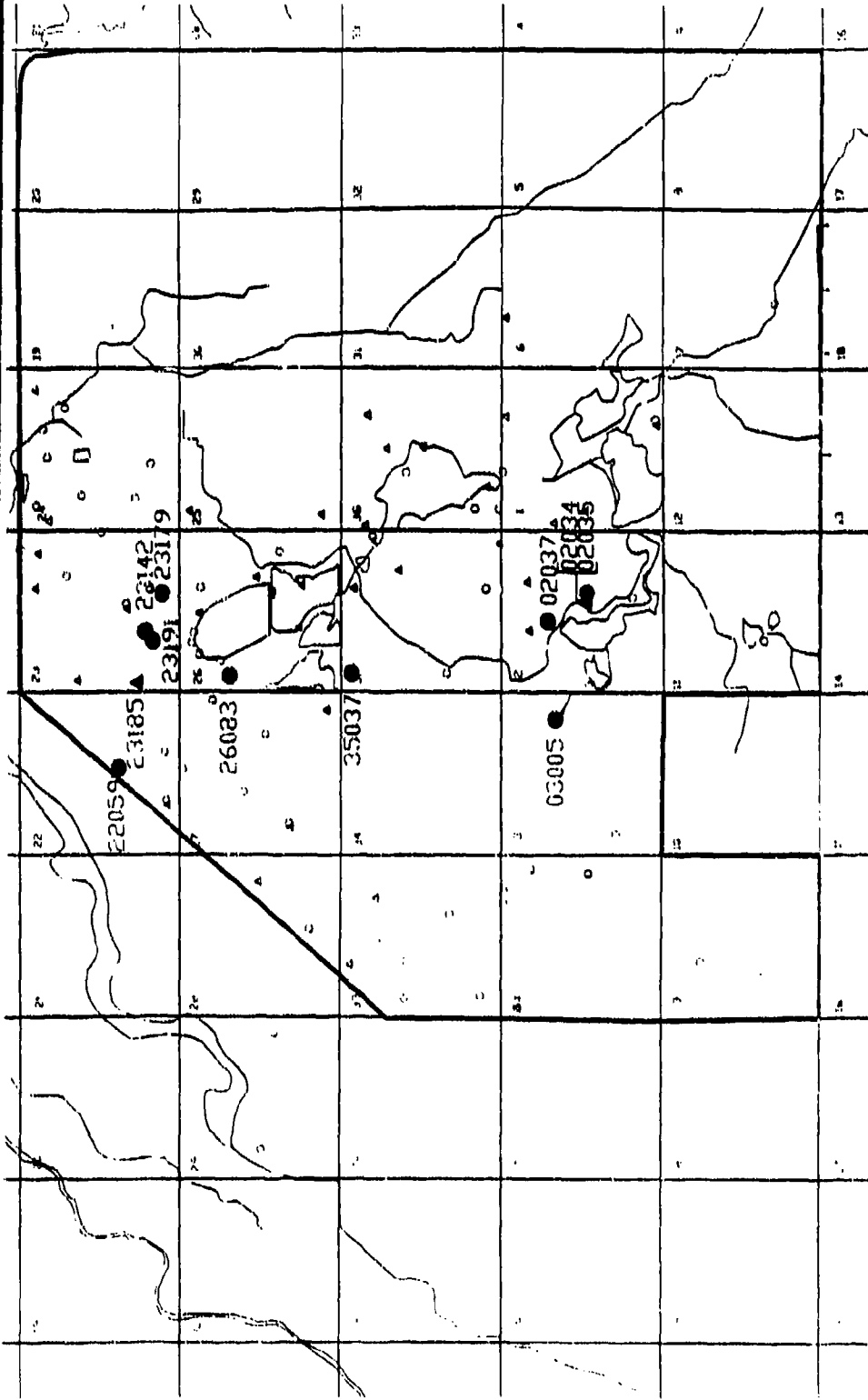
SOURCE: Hunter/ESE, 1988

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For Rocky Mountain Arsenal

Aberdeen Proving Ground, Maryland

0-88, T 44





EXPLANATION

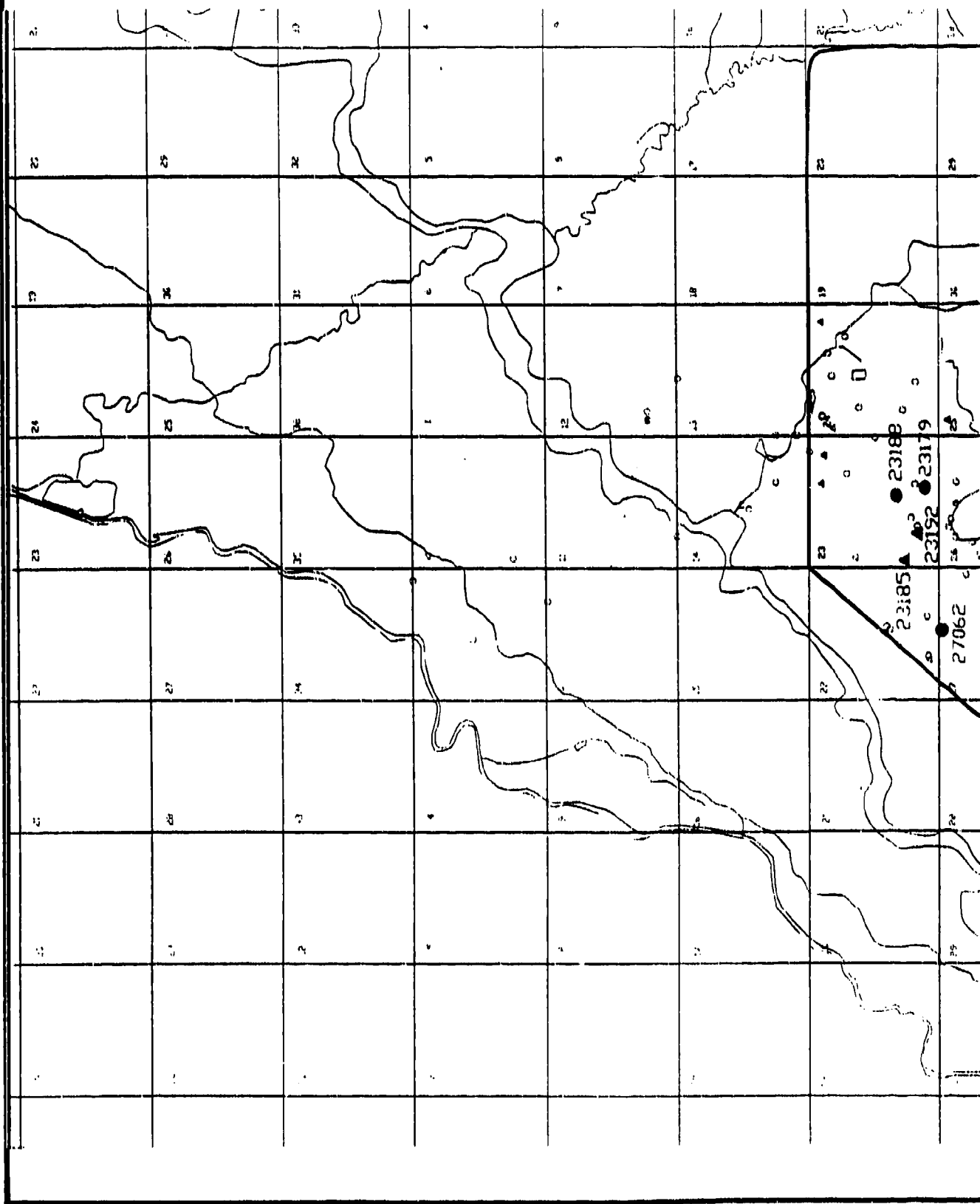
- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

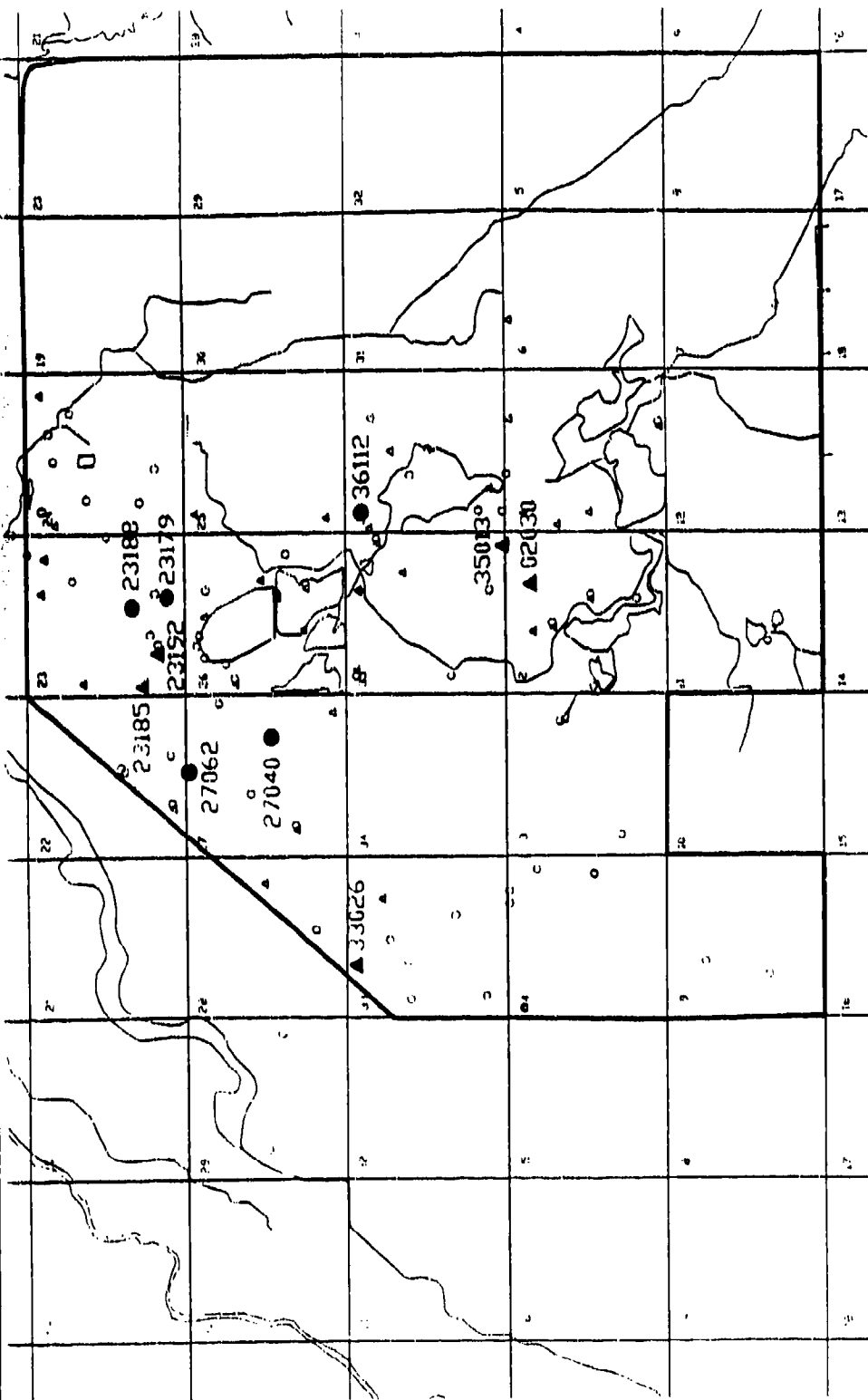
Figure D-170
TASK 4/44 GC/MS ANALYSIS NETWORK, 1,1,2-TRICHLOROETHANE
DETECTIONS

SOURCE: Hunter/ESE, 1988

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840, T 44





EXPLANATION

- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number 1020
- ▲ Denver Detection And Well Number 35065

Figure D-171

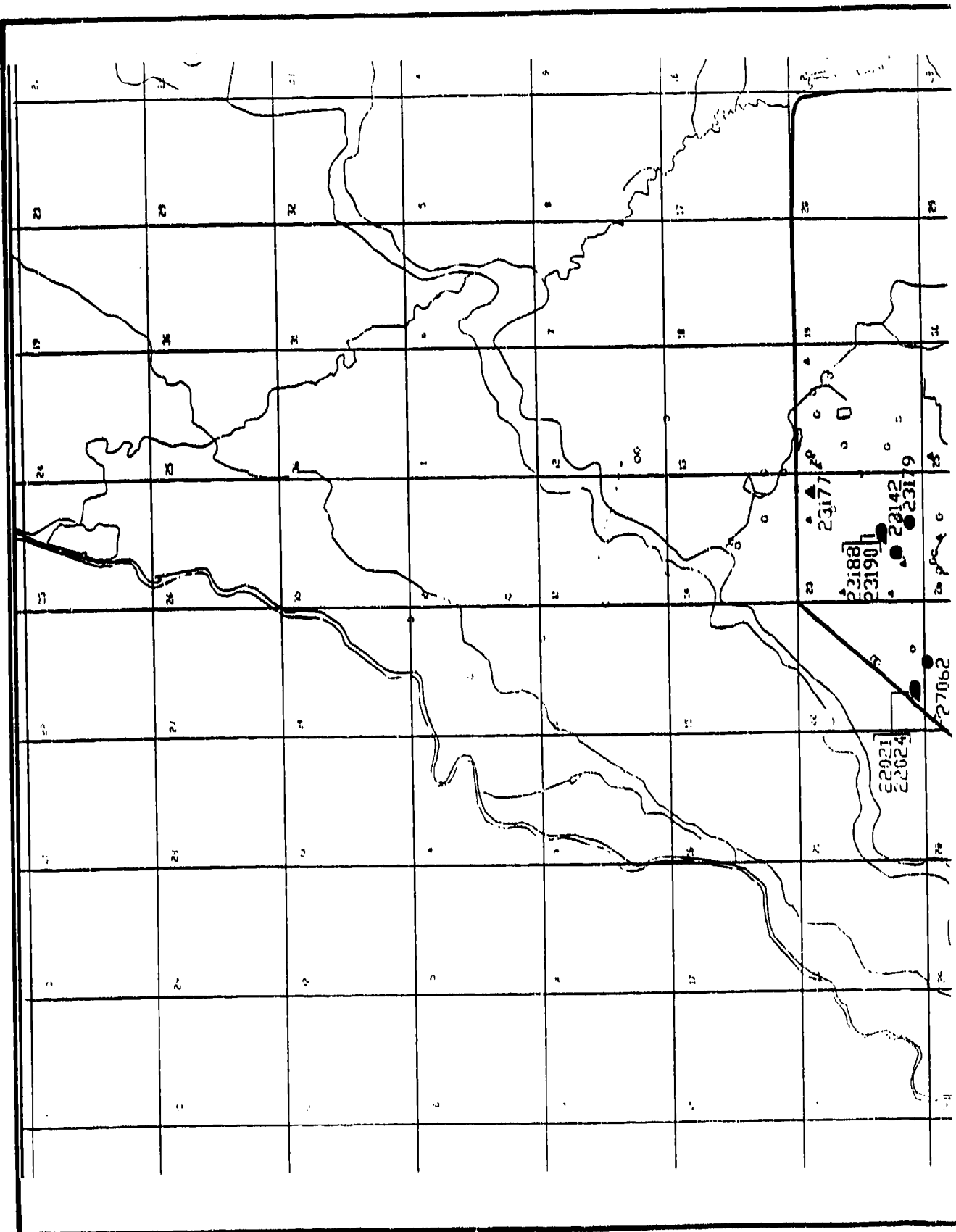
TASK 4/44 GC/MS ANALYSIS NETWORK, 2,6,10,14-TETRAMETHYLHEXADECANE DETECTIONS

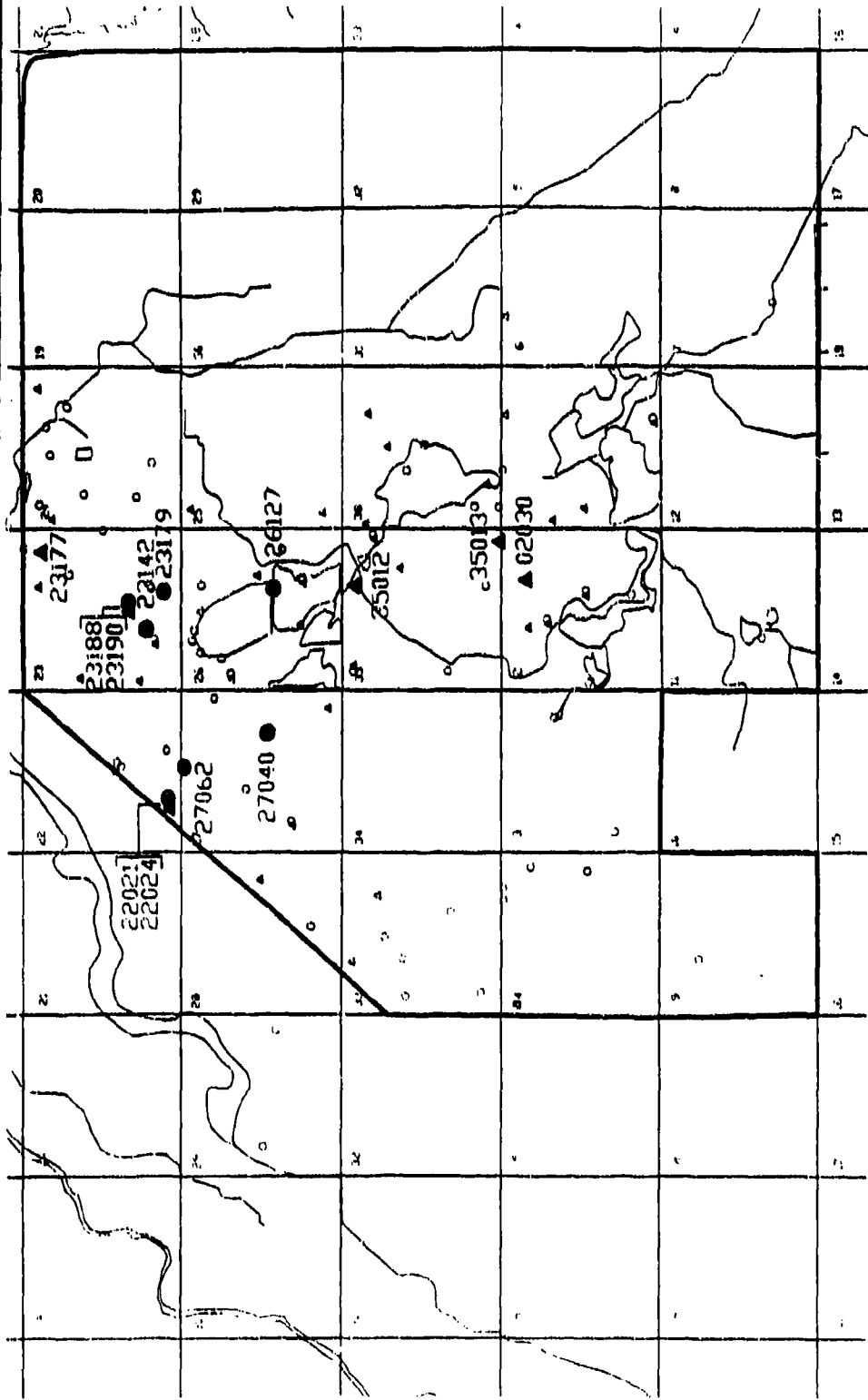
SOURCE: Hunter/ESI, 1995

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EXPLANATION

- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

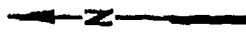
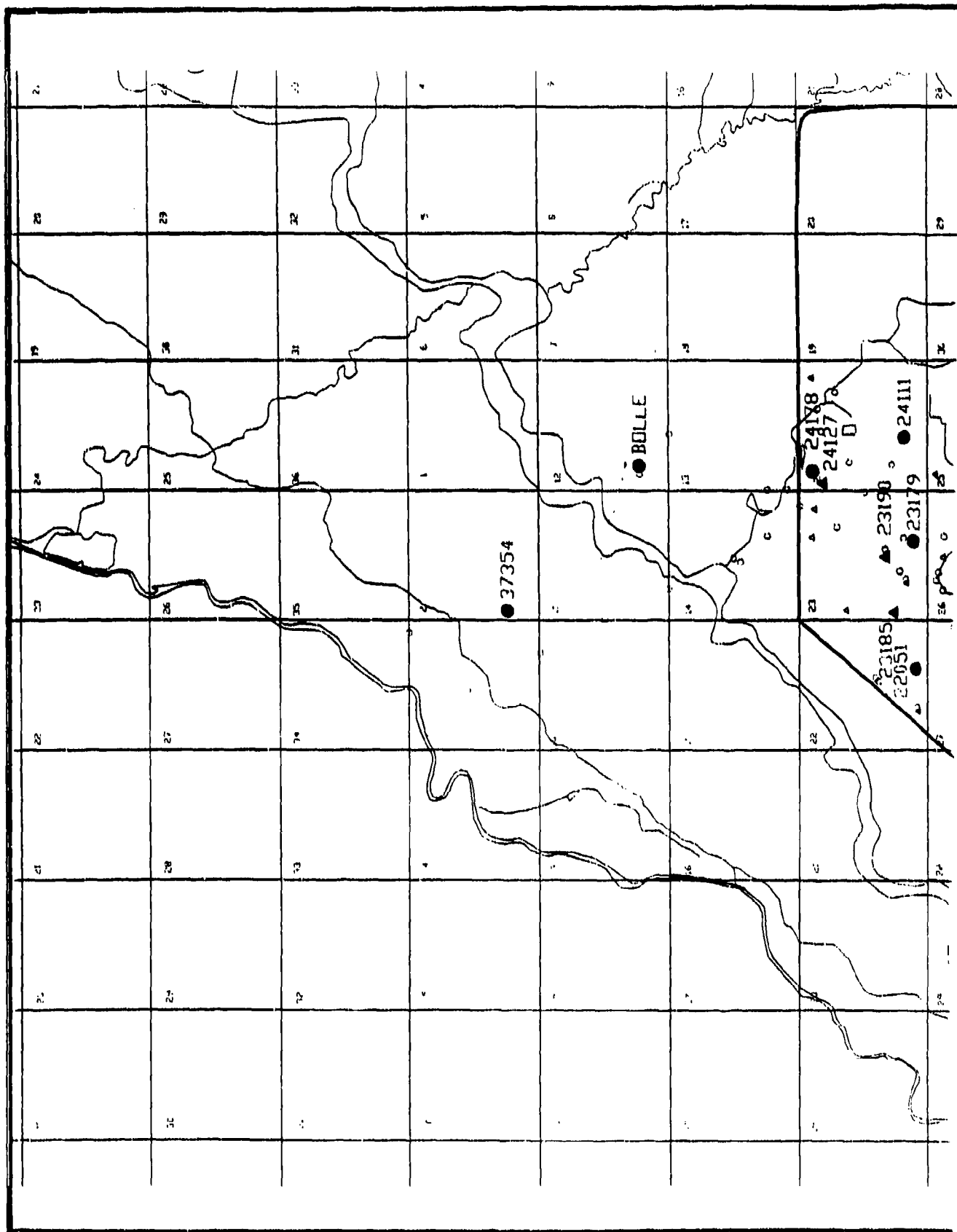


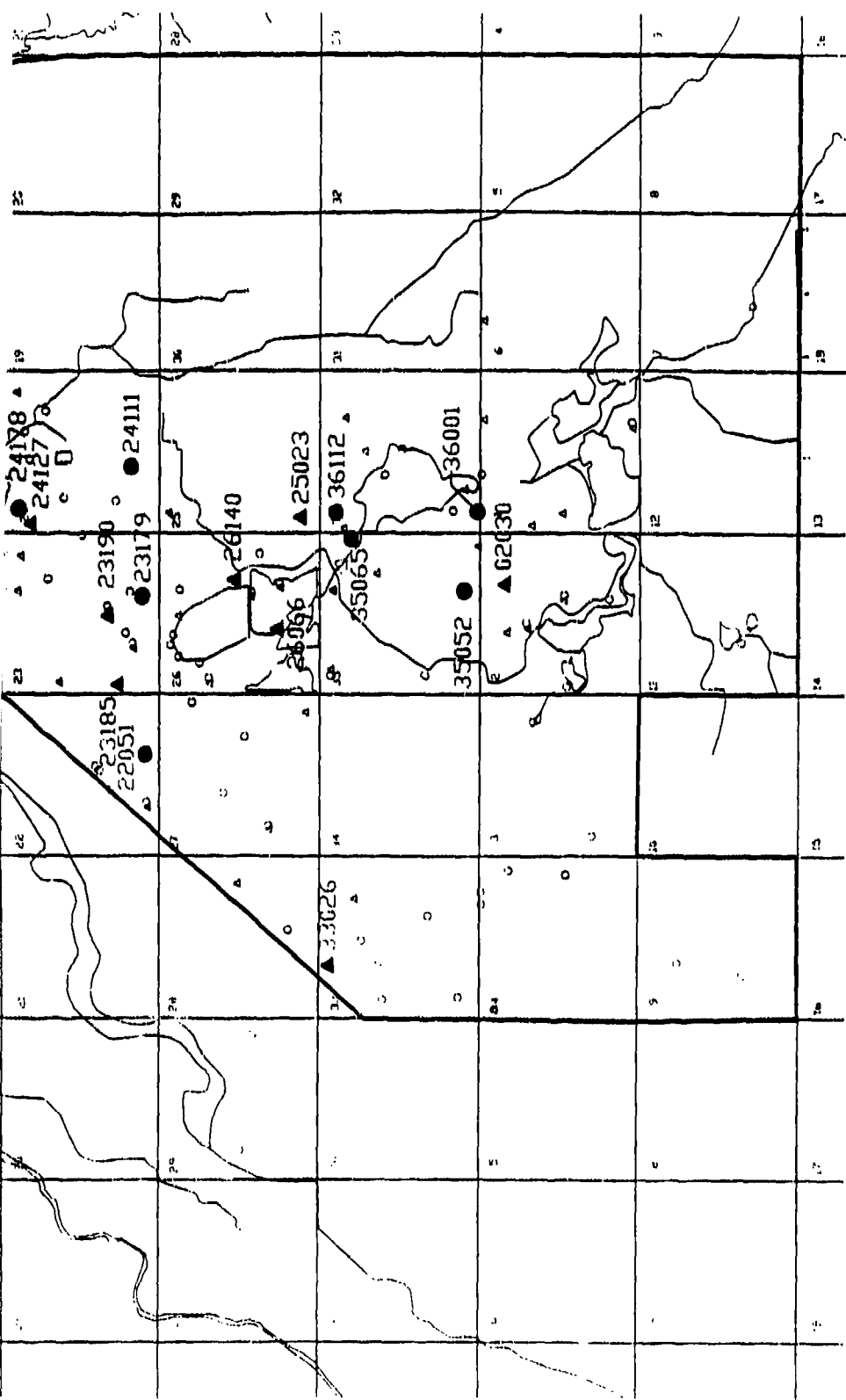
Figure D-172

TASK 4/44 GC/MS ANALYSIS NETWORK, 2,6,10-
TRIMETHYLPENTADECANE DETECTIONS

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For Rocky Mountain Arsenal

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EXPLANATION

- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

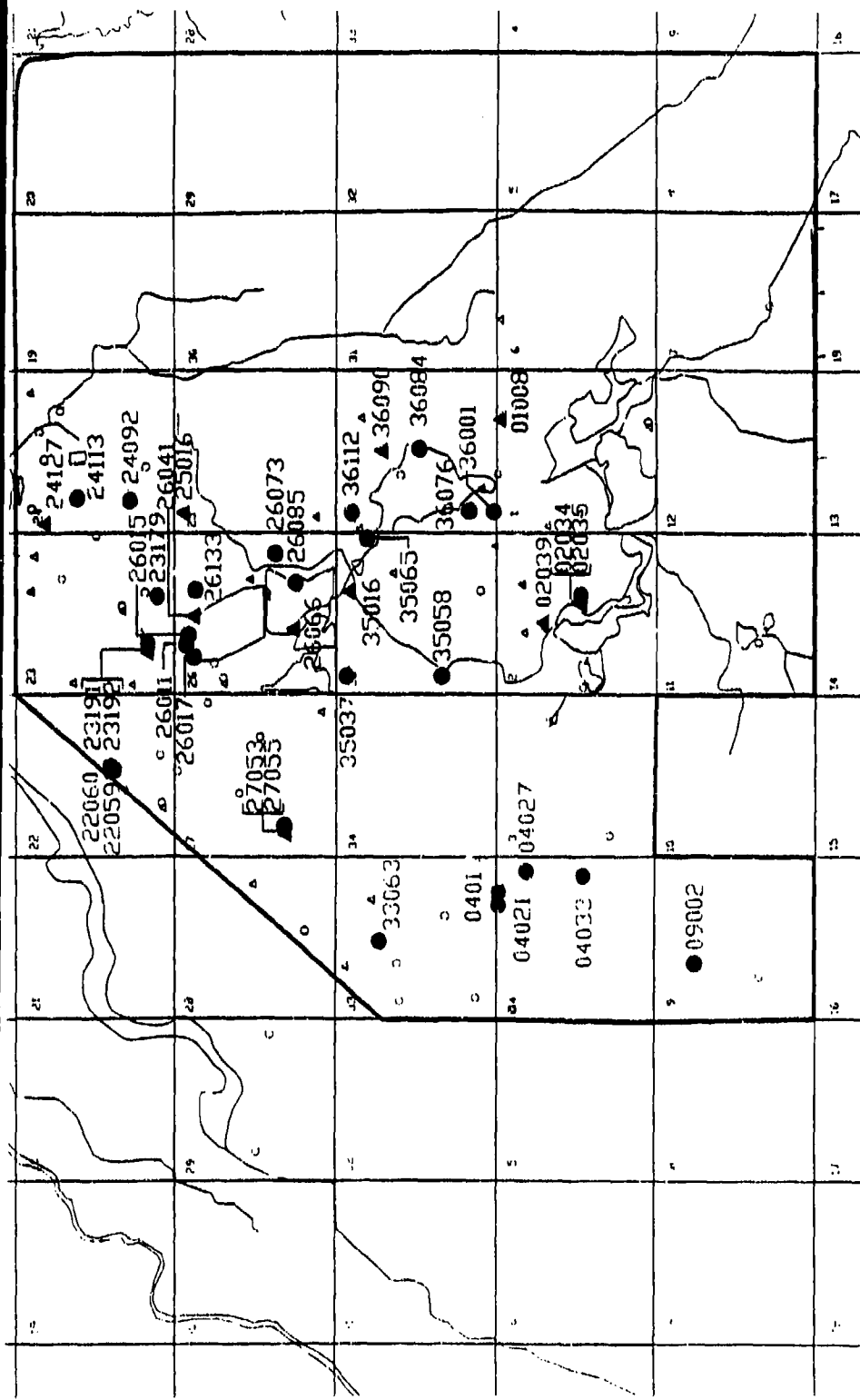
Figure D-173

TASK 4/44 GC/MS ANALYSIS NETWORK, BIS(2-ETHYLHEXYL)
PHTHALATE DETECTIONS

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

SOURCE: Hunter/ESE, 1988

Aberdeen Proving Ground, Maryland



EXPLANATION

- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

Figure D-174

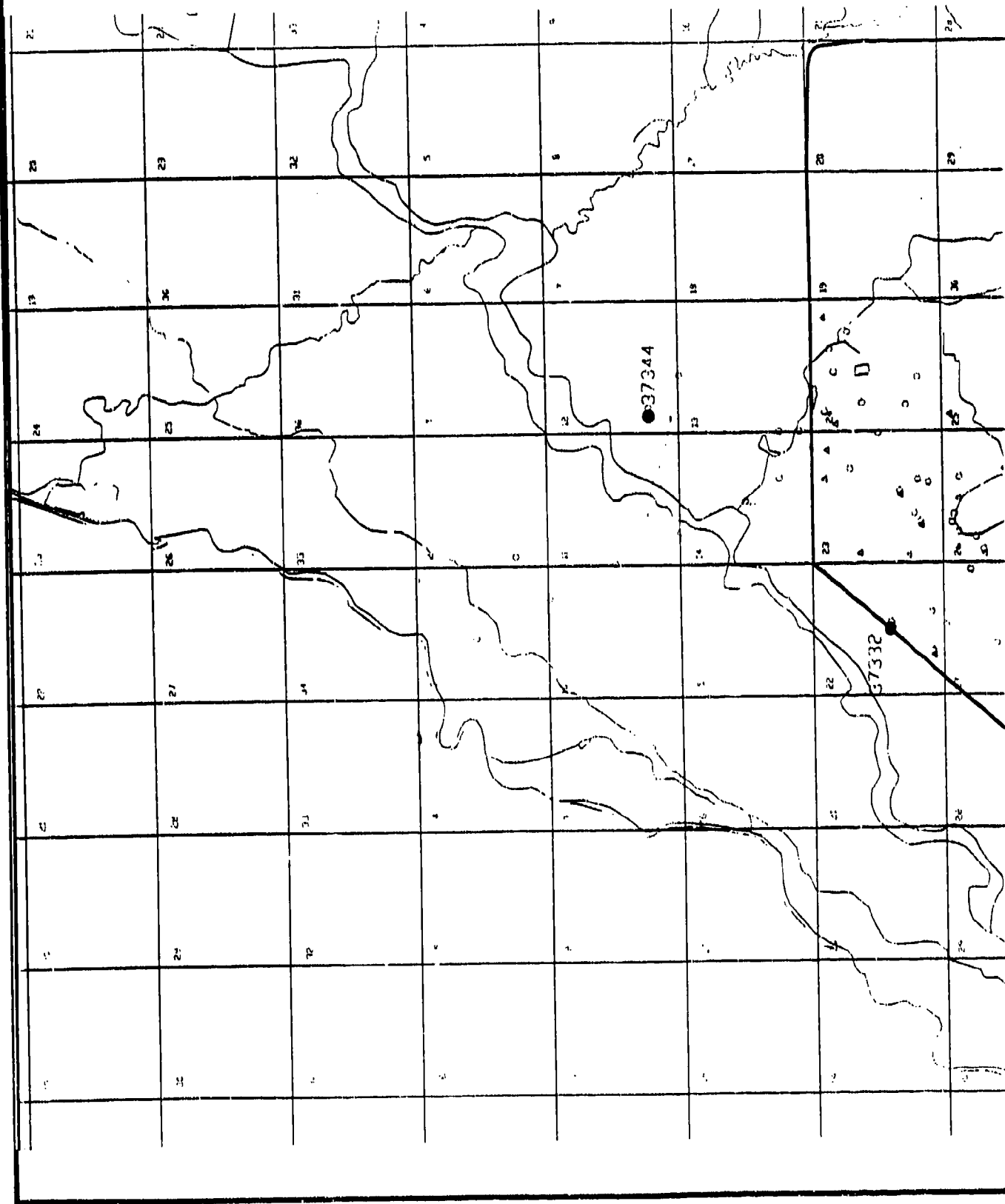
TASK 4/44 GC/MS ANALYSIS NETWORK, CAPROLACTAM DETECTIONS

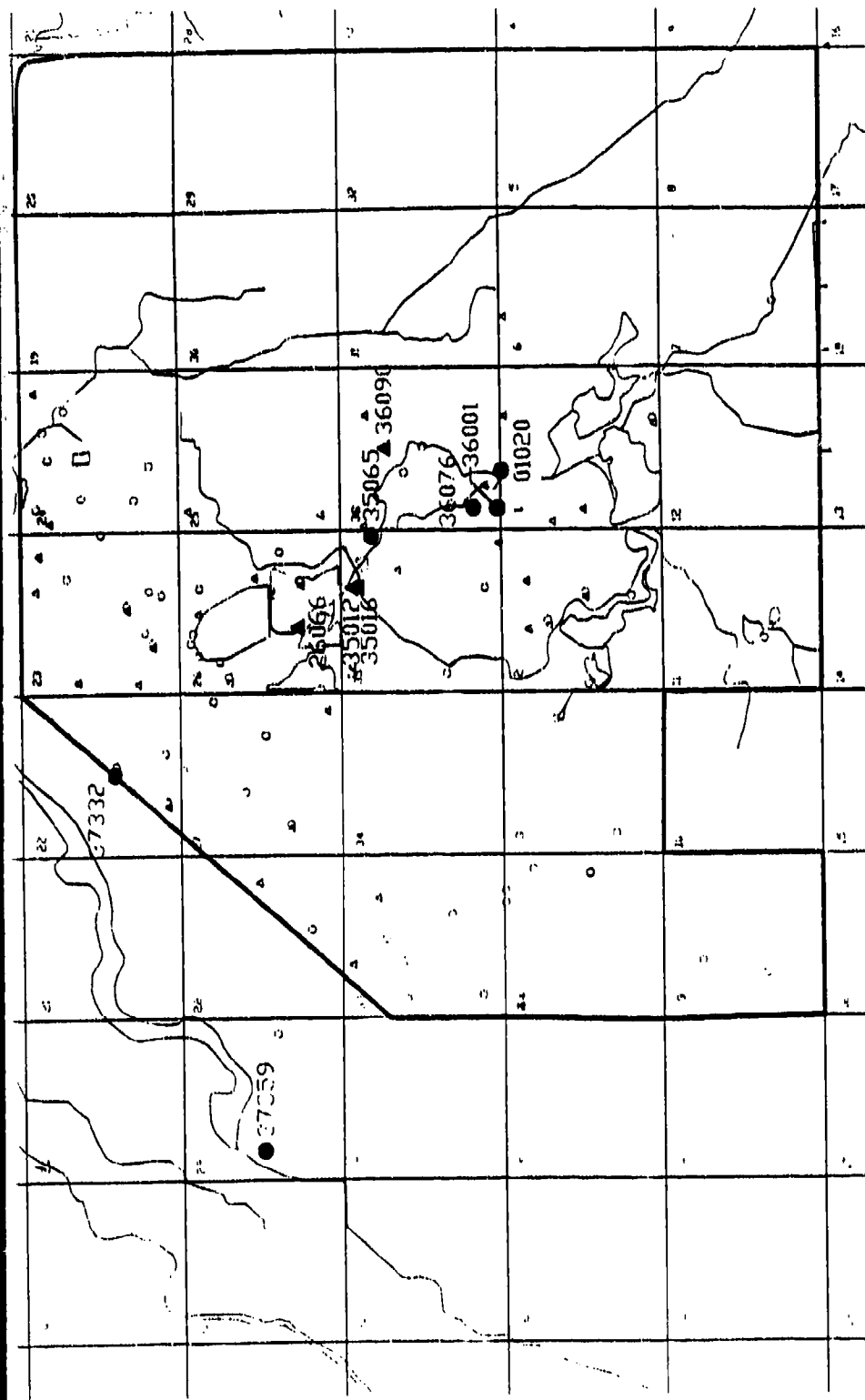
Prepared for:
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For Rocky Mountain Arsenal

SOURCE: Hunter/ESE, 1988

Aberdeen Proving Ground, Maryland

8-88, T 44





EXPLANATION

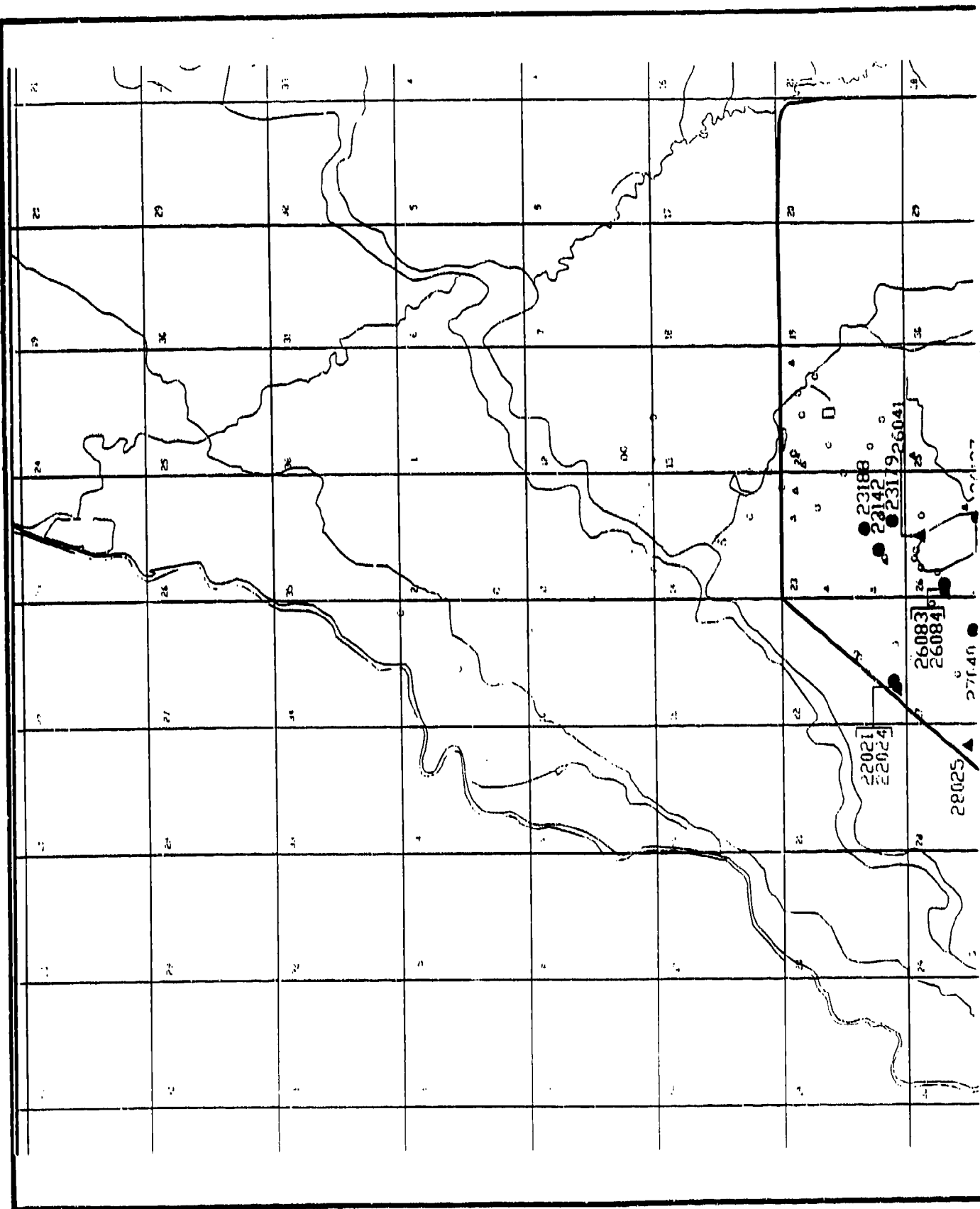
- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

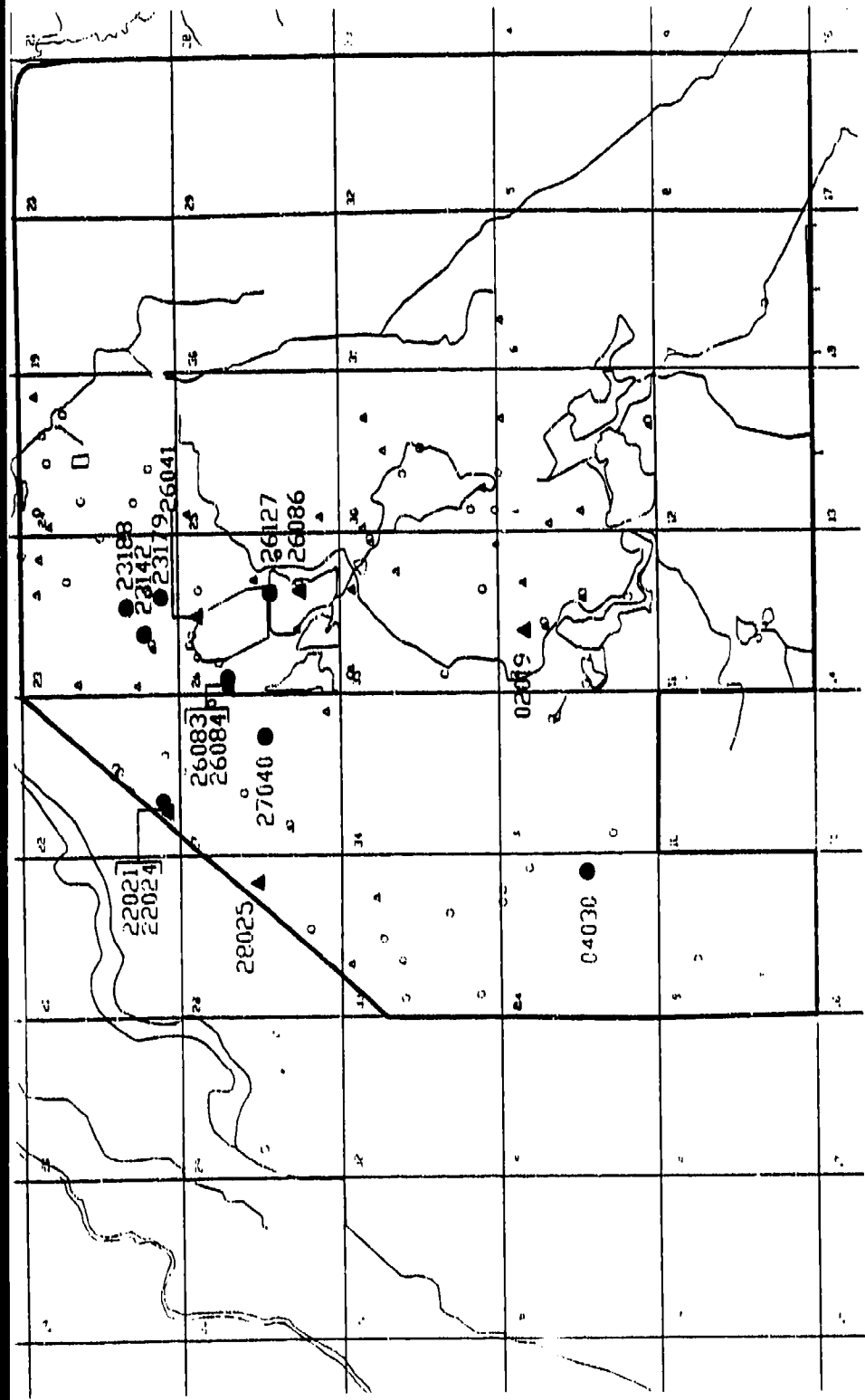


Figure D-175
TASK 4/4 GC/MS ANALYSIS NETWORK, CHLOROBENZENE
DETECTIONS

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Aberdeen Proving Ground, Maryland

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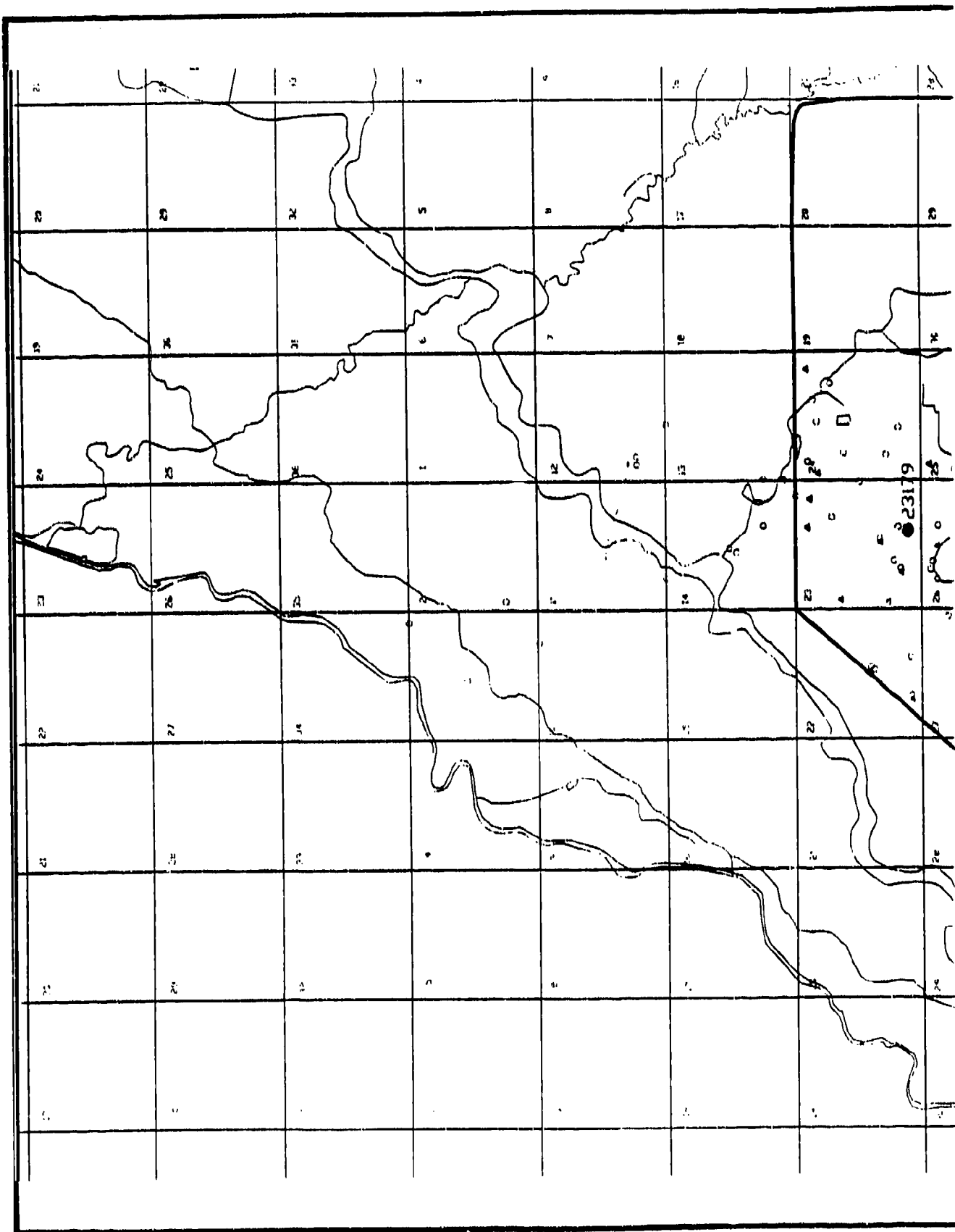
EXPLANATION

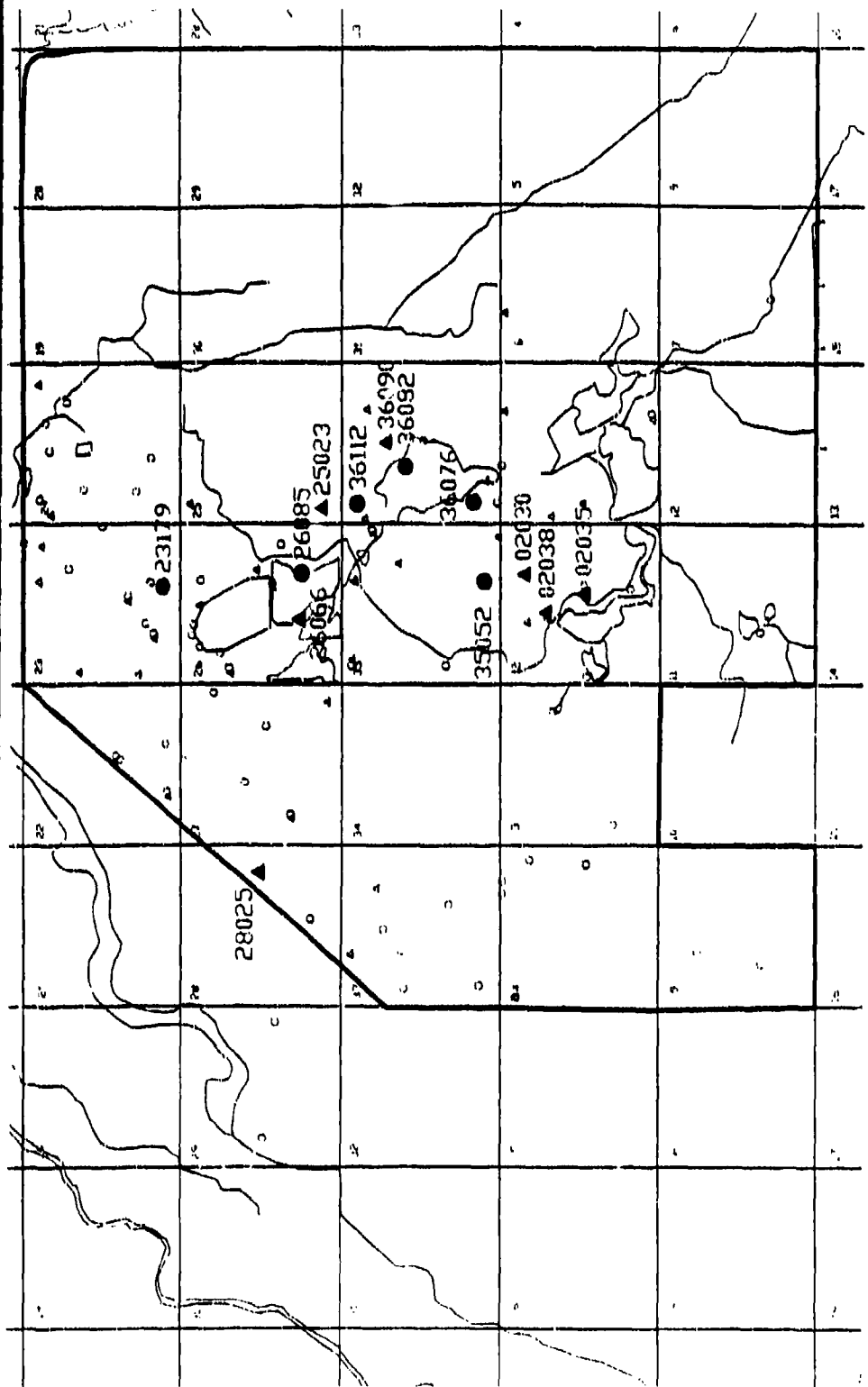
- Alluvial Well, No Detection
- △ Denver Frn Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

Figure D-176
TASK 4/44 GCIMS ANALYSIS NETWORK, CYCLOPENTANONE
DETECTIONS

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

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EXPLANATION

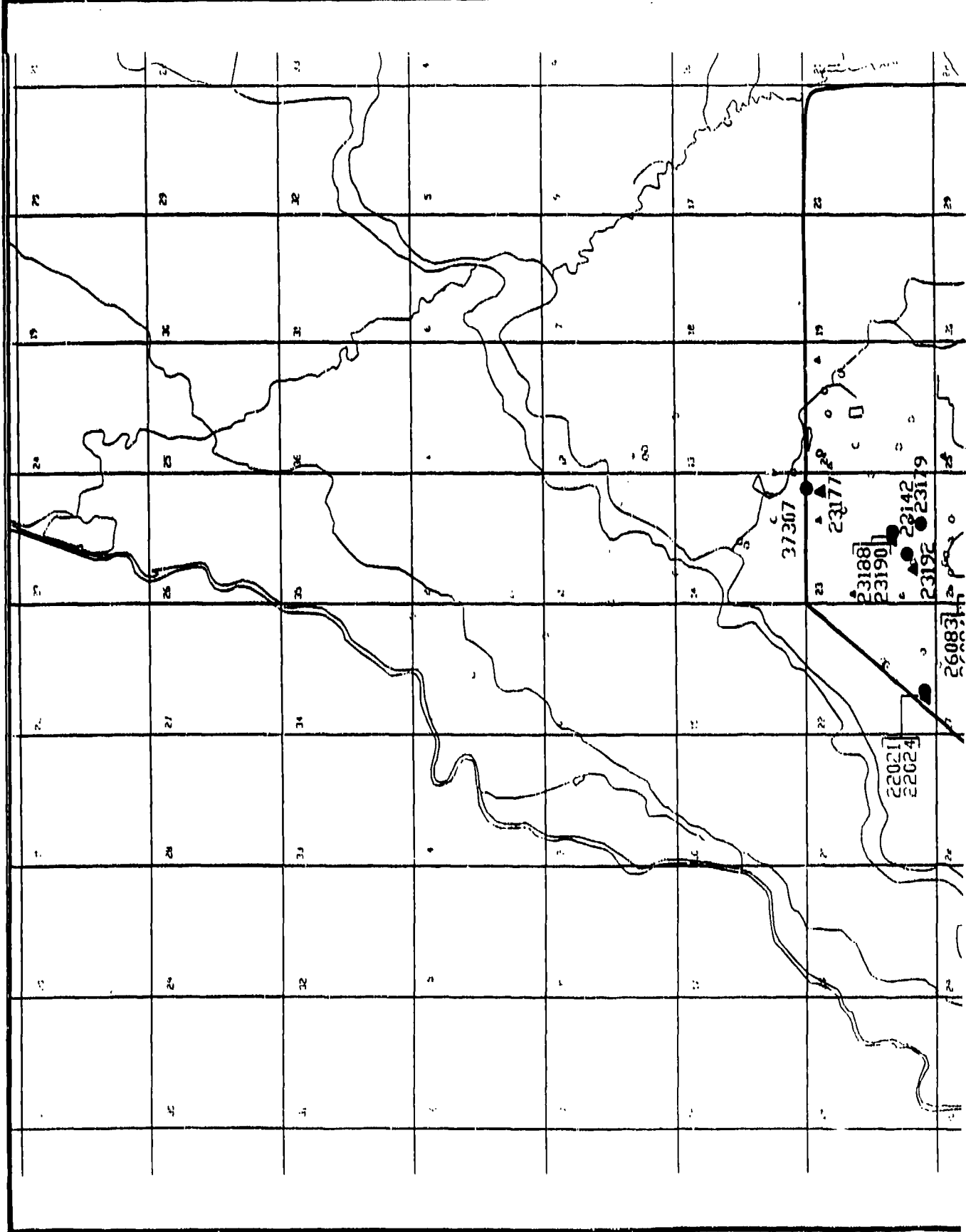
- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

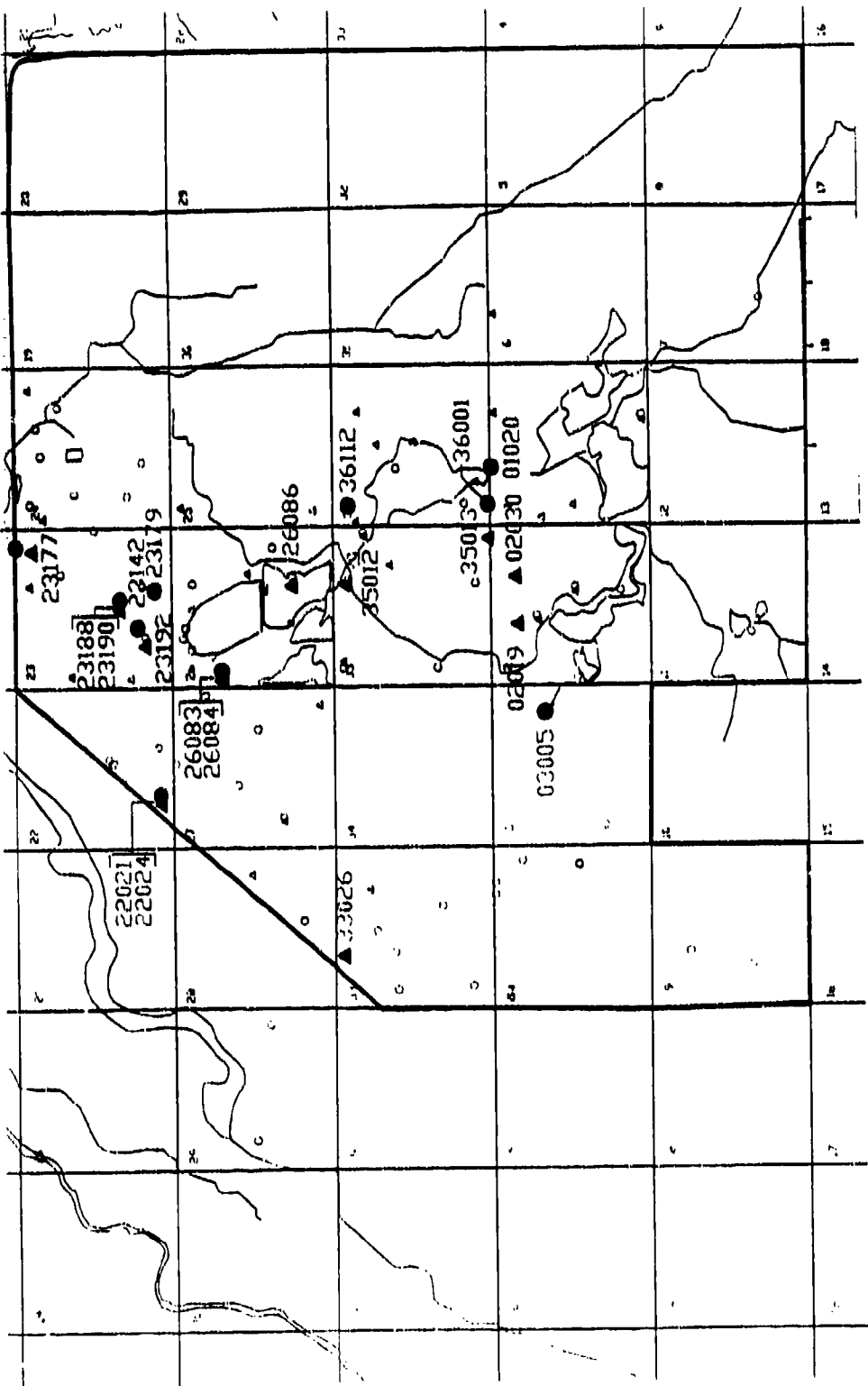
Figure D-177
TASK 4/44 GC/MS ANALYSIS NETWORK, HEXADECANOIC ACID
DETECTIONS

SOURCE: Hunter/ESE, 1998

Prepared for:
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For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

800, T 44





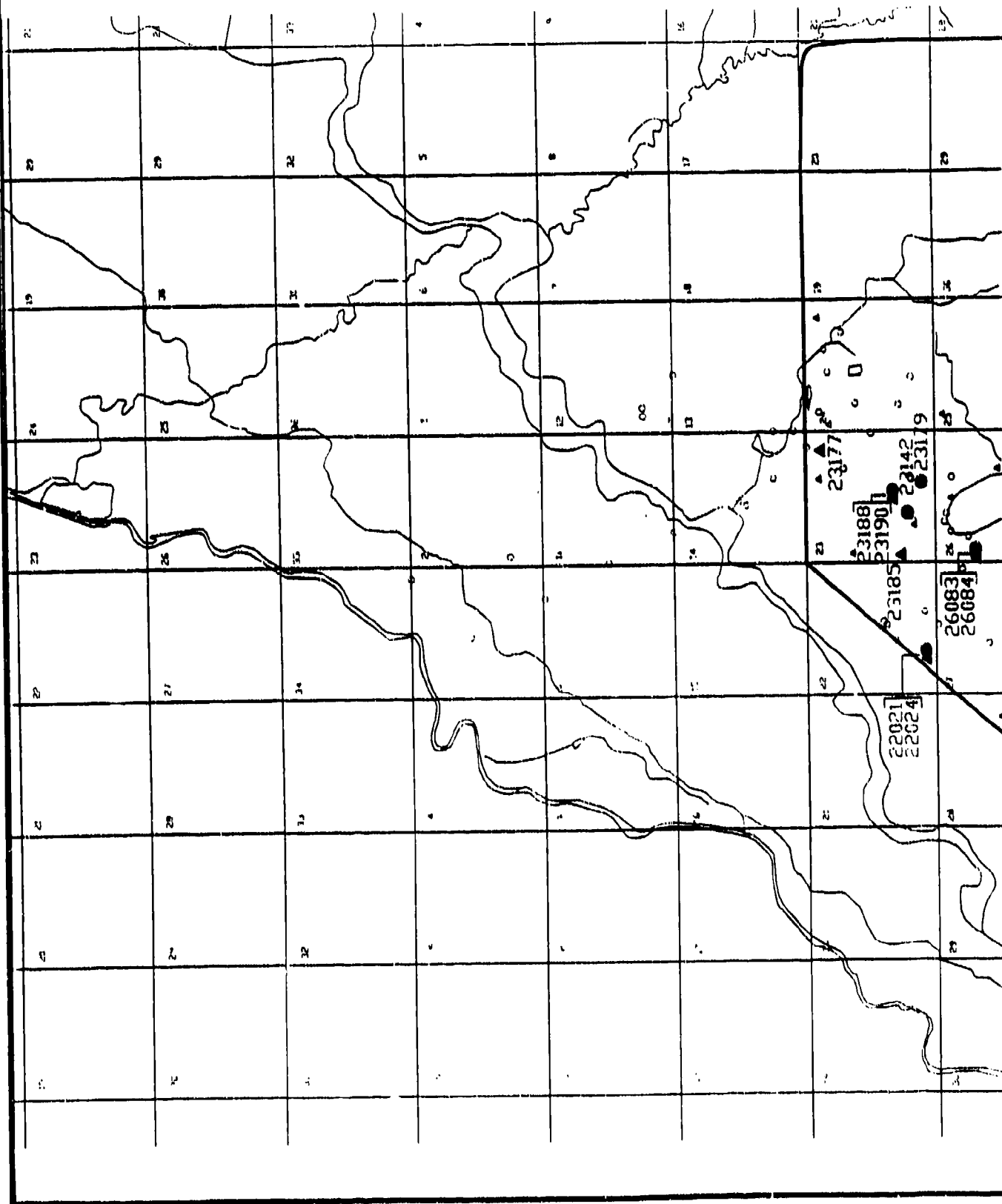
EXPLANATION

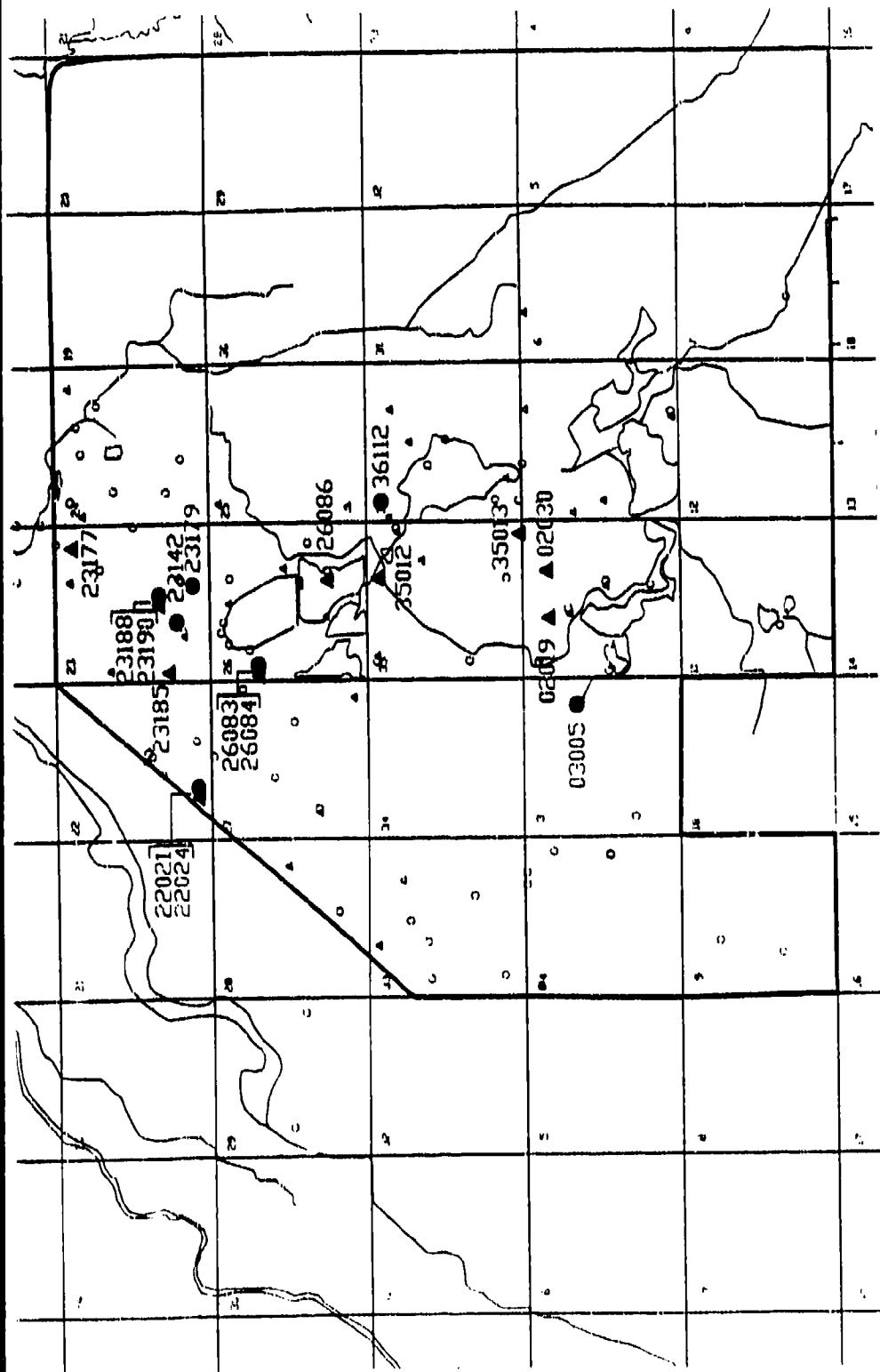
- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

Figure D-178.
TASK 4/44 GC/MS ANALYSIS NETWORK, N-EICOSANE
DETECTIONS

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Aberdeen Proving Ground, Maryland

8-88 T 44





EXPLANATION

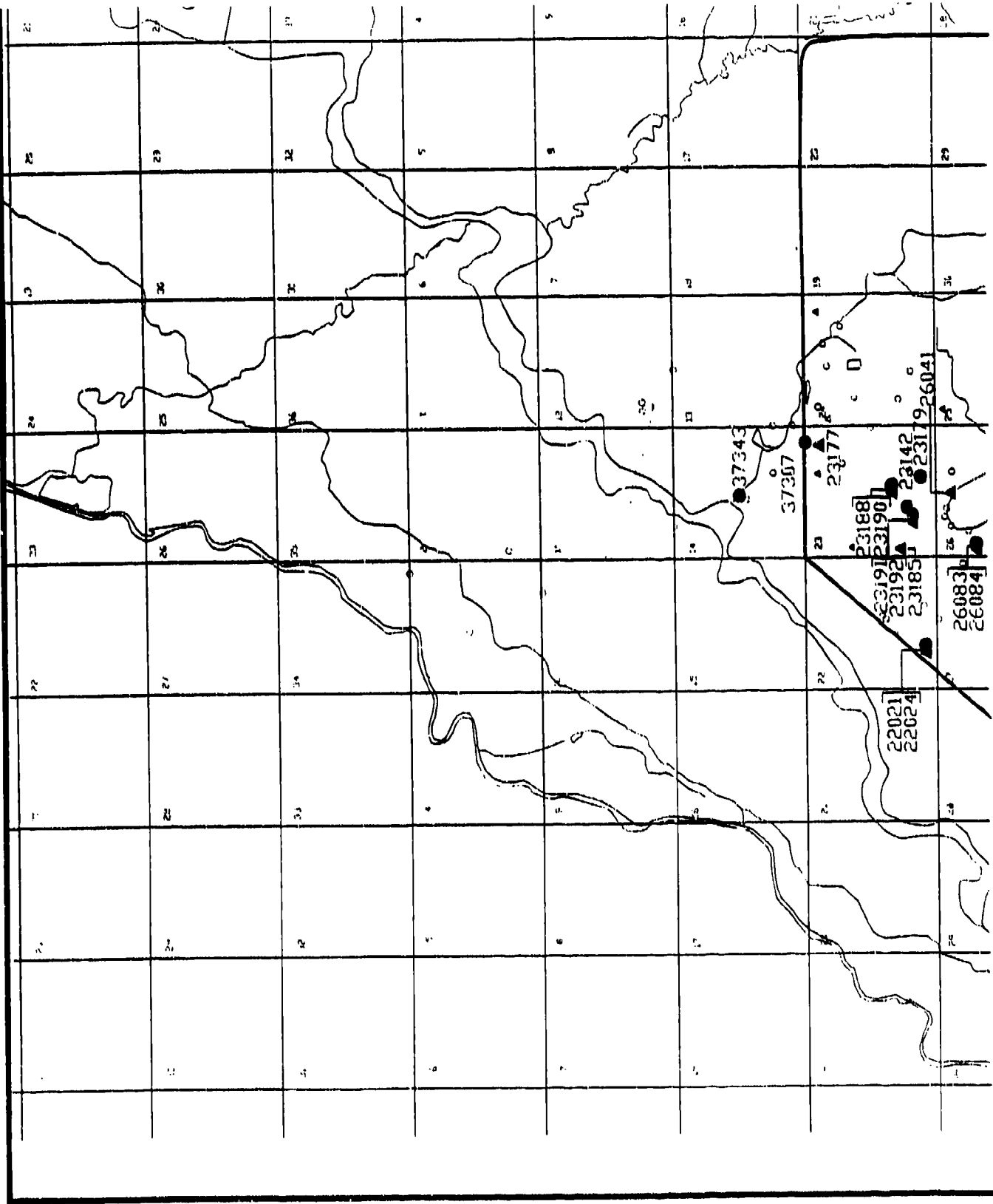
- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

Figure D-179

TASK 4/44 GC/MS ANALYSIS NETWORK, N-HENEICOSANE
DETECTIONS

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37343

37307

23177

23188

23191

23192

23185

22021

22024

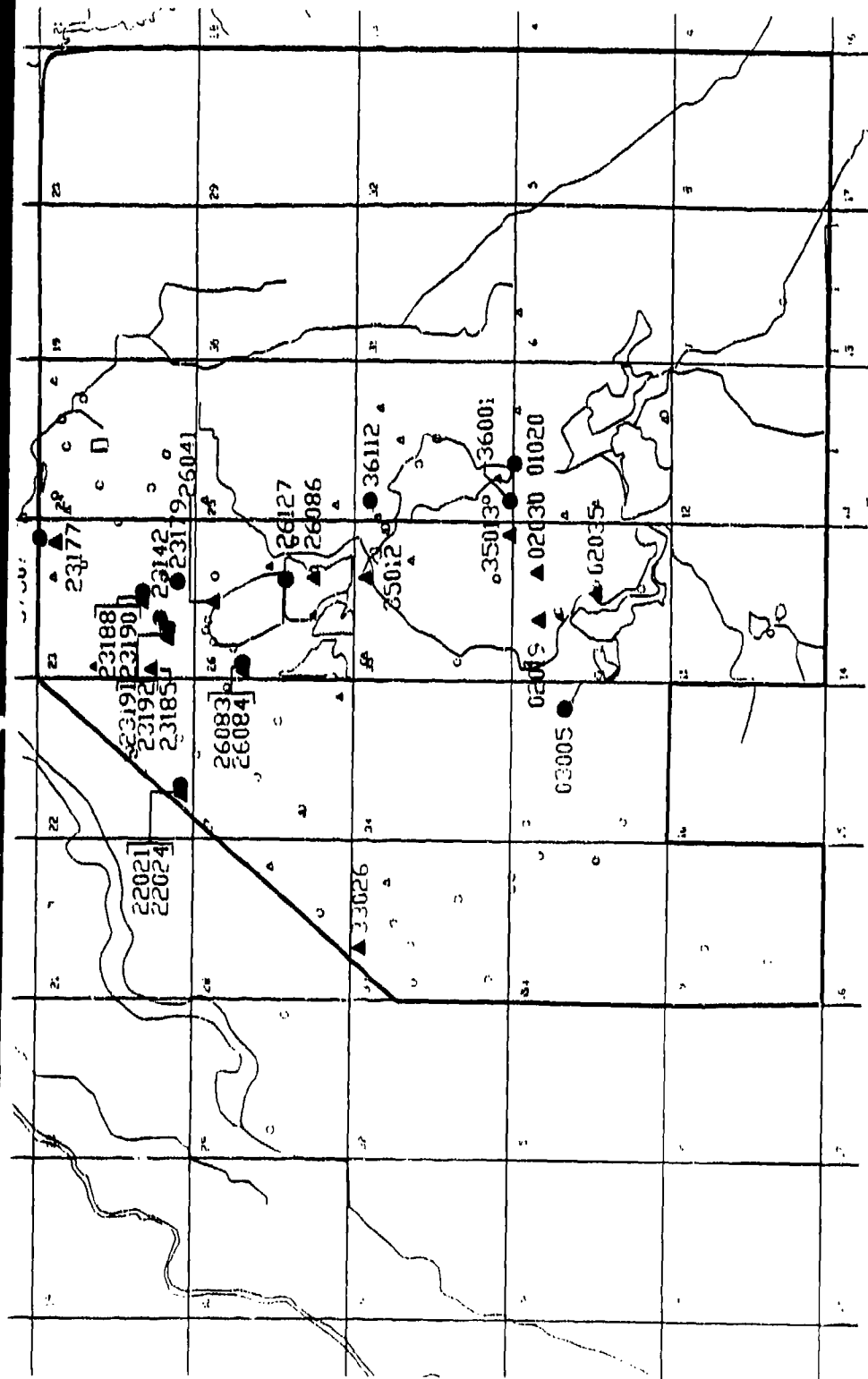
26083

26084

23142

23179

26041



EXPLANATION

- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

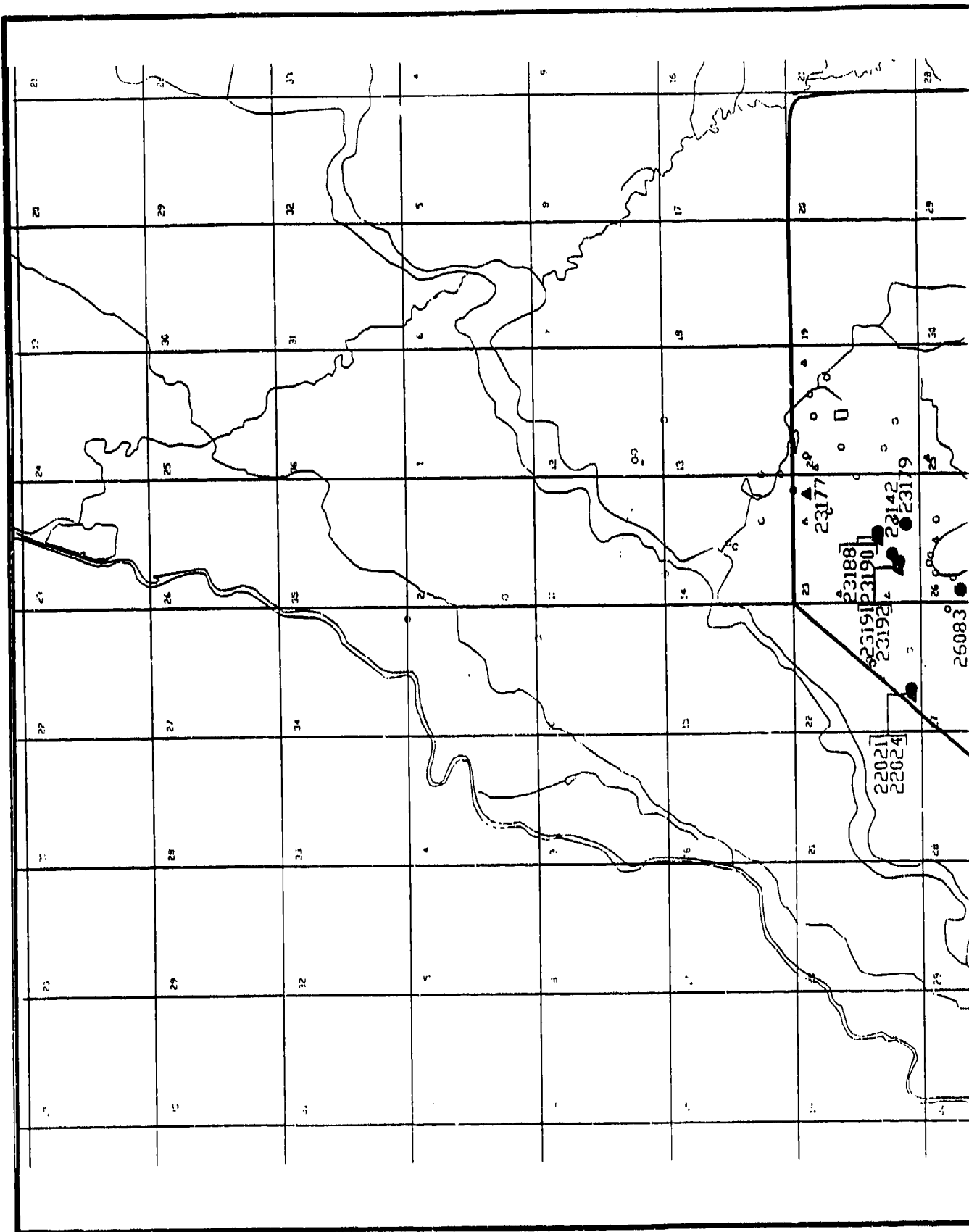
Figure D-180

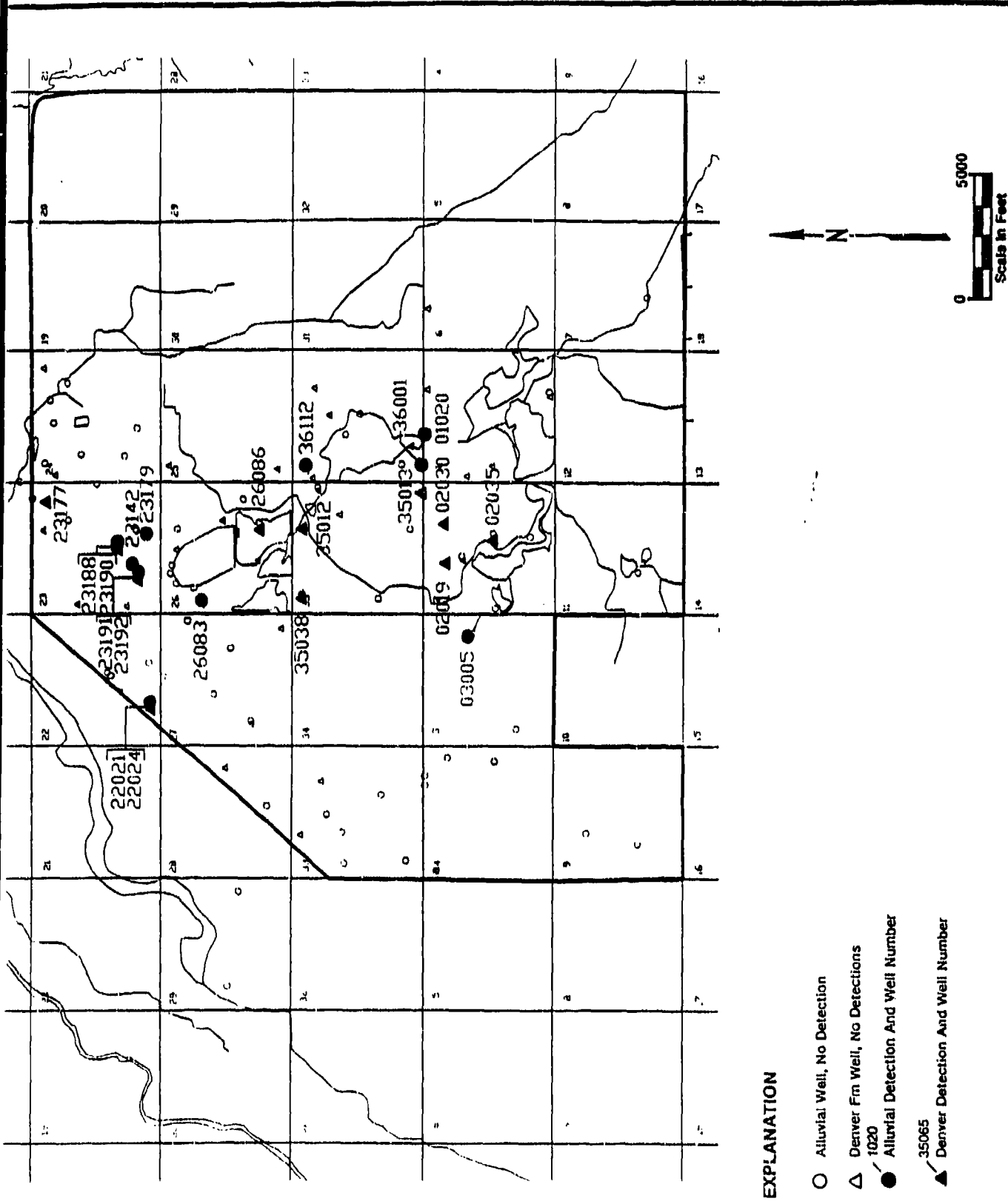
TASK 4/44 GC/MS ANALYSIS NETWORK, N-HEPTADECANE
DETECTIONS

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

SOURCE: Hunter/ESE, 1988

Aberdeen Proving Ground, Maryland





EXPLANATION

- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

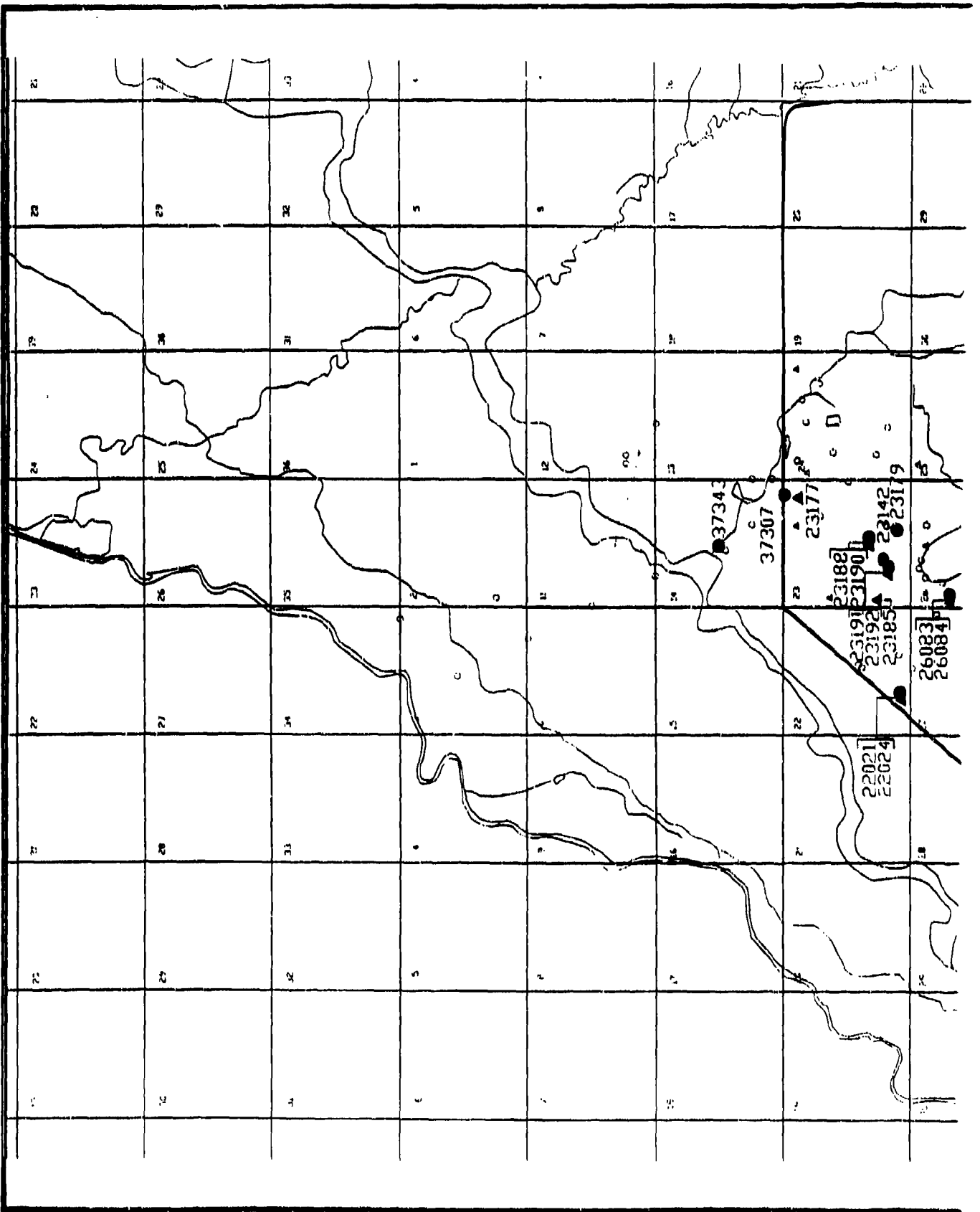
Figure D-181

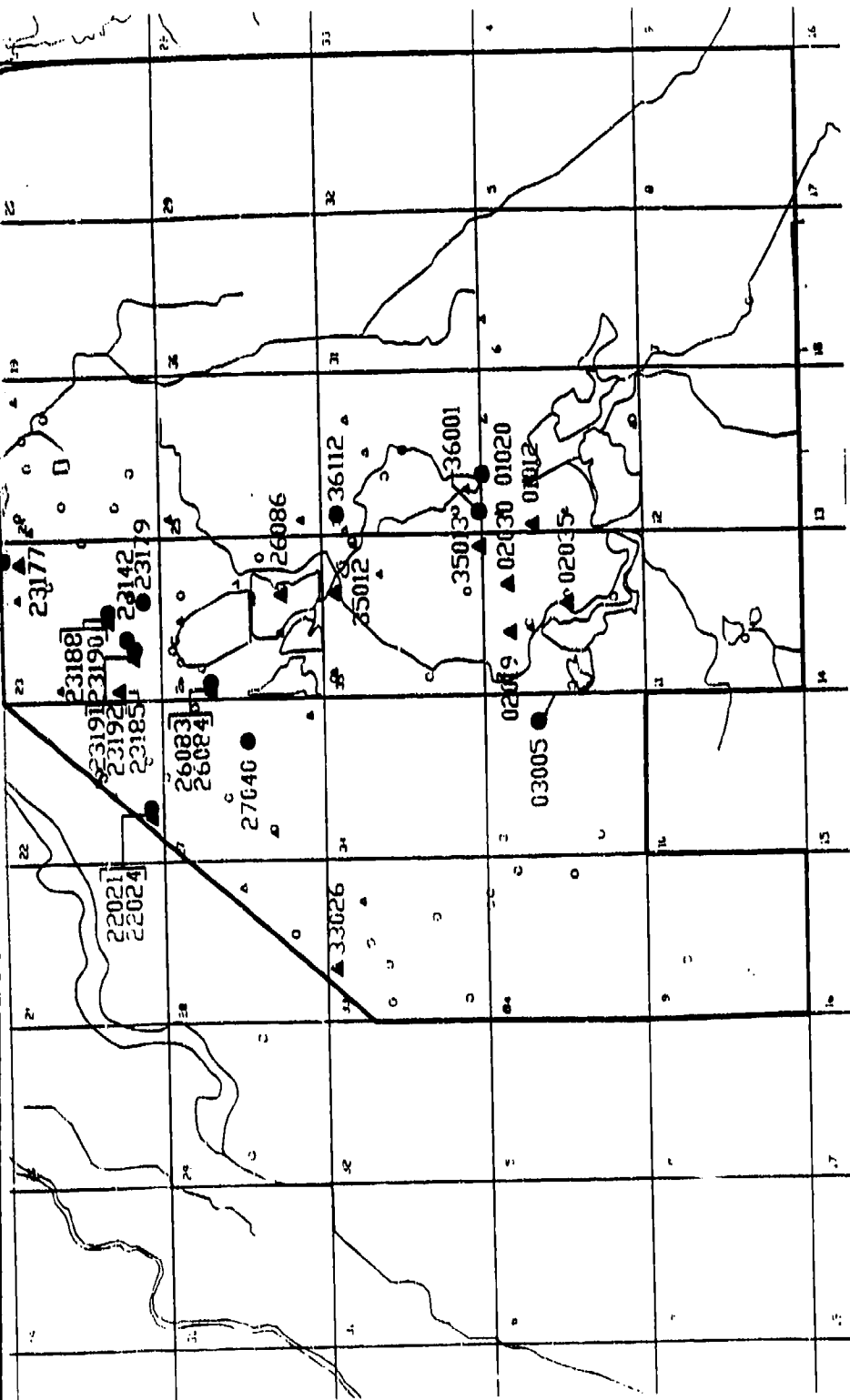
TASK 4/44 GC/MS ANALYSIS NETWORK, N-HEXADECANE
DETECTIONS

SOURCE: Hunter/ESE, 1988

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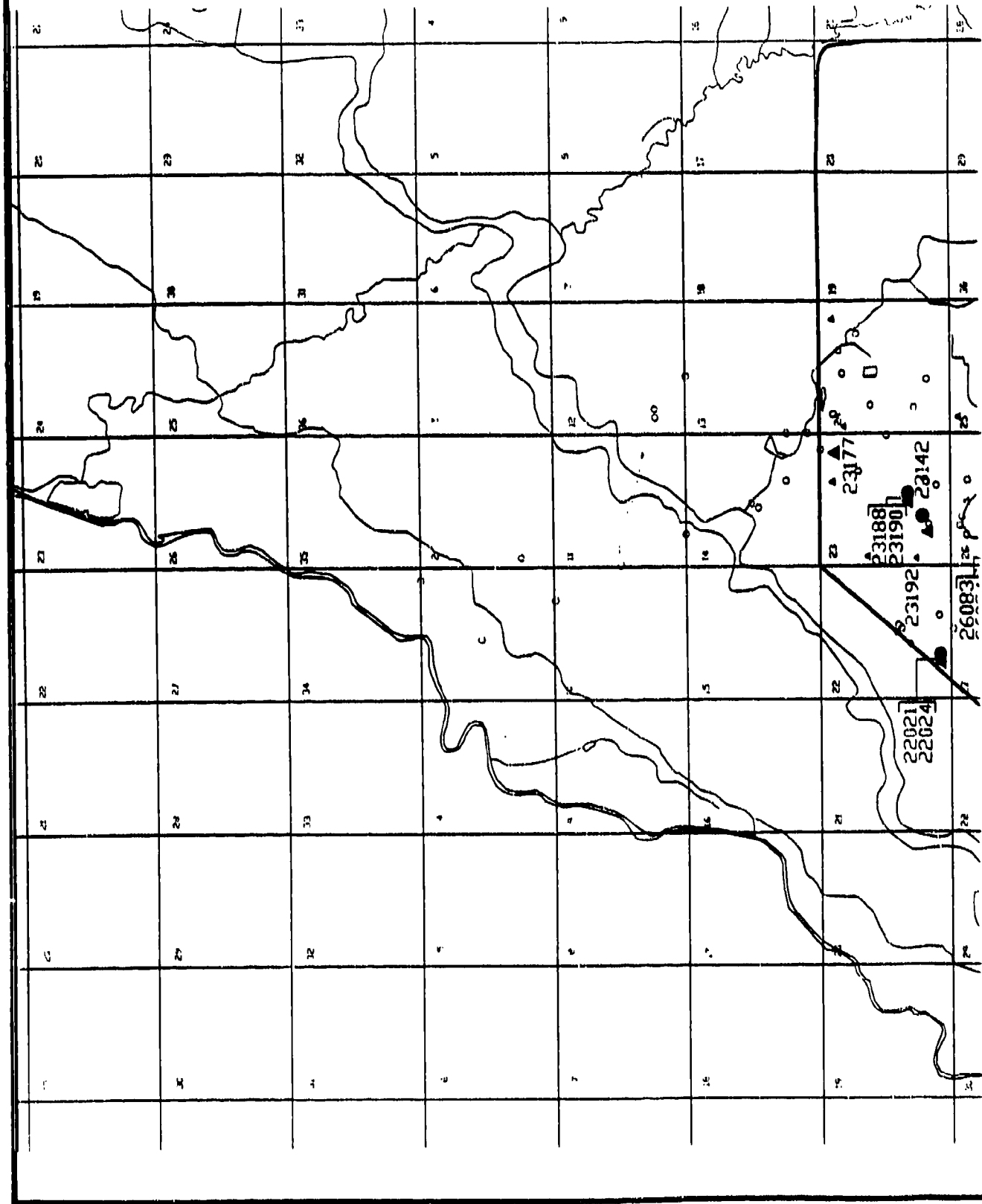
EXPLANATION

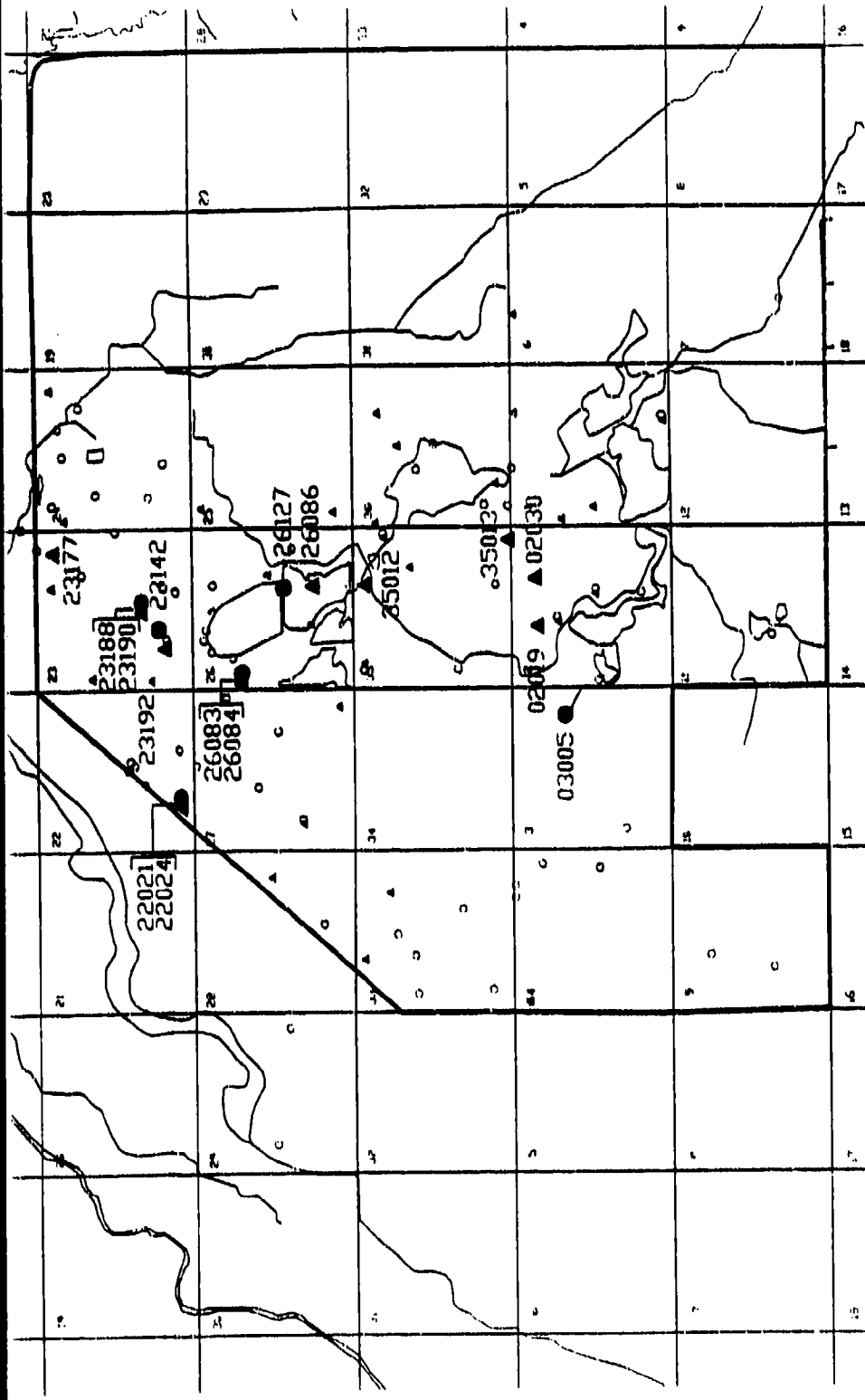
- Alluvial Well, No Detection
 △ Denver Fm Well, No Detections
 1020
 ● Alluvial Detection And Well Number
 35065
 ▲ Denver Detection And Well Number

Figure D-182
TASK 4/44 GC/MS ANALYSIS NETWORK, N-NONADECANE
DETECTIONS

SOURCE: Hunter/ESE, 1988

0.00142





EXPLANATION

- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

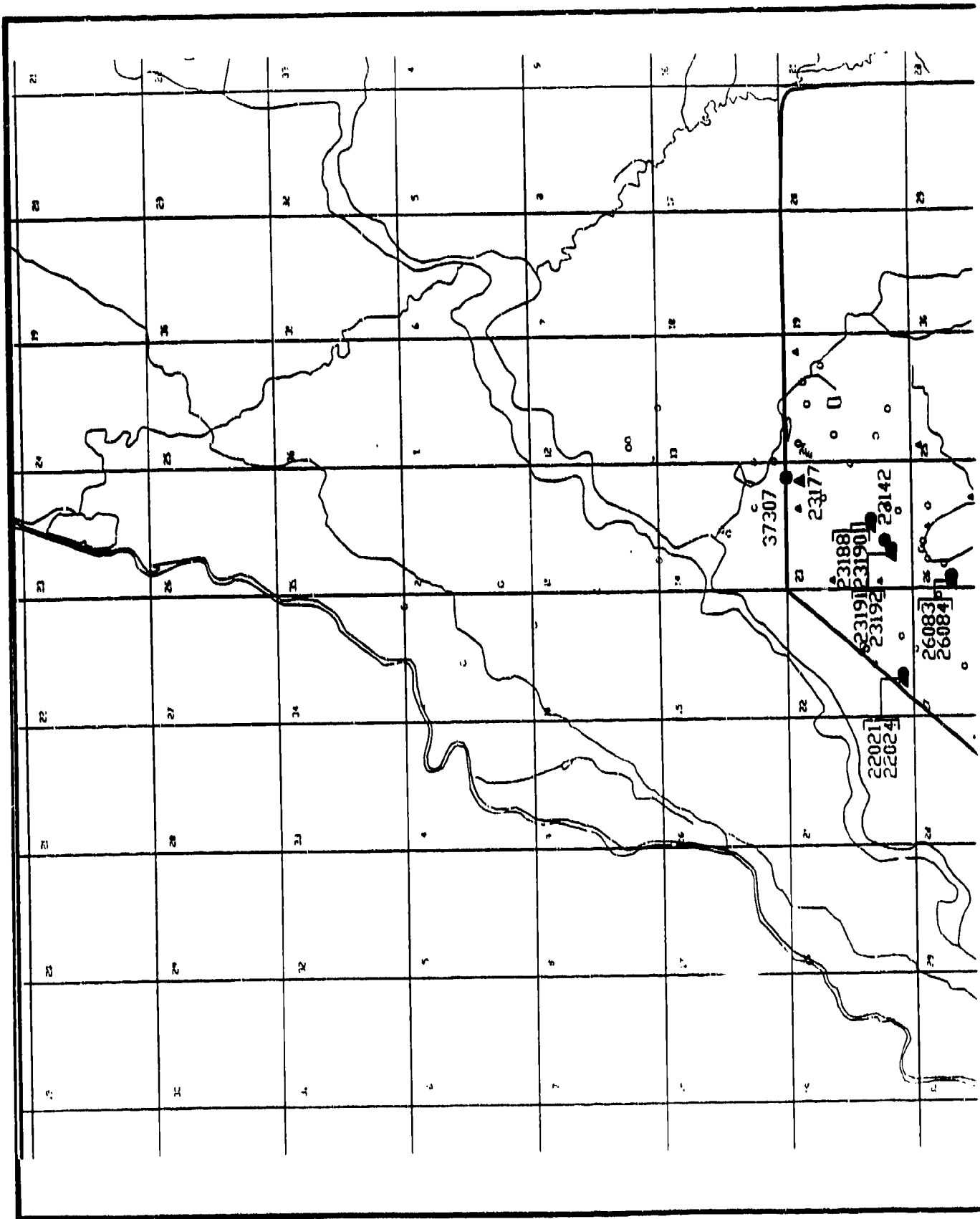
Figure D-183
TASK 4/44 GC/MS ANALYSIS NETWORK, N-PENTADECAN
DETECTIONS

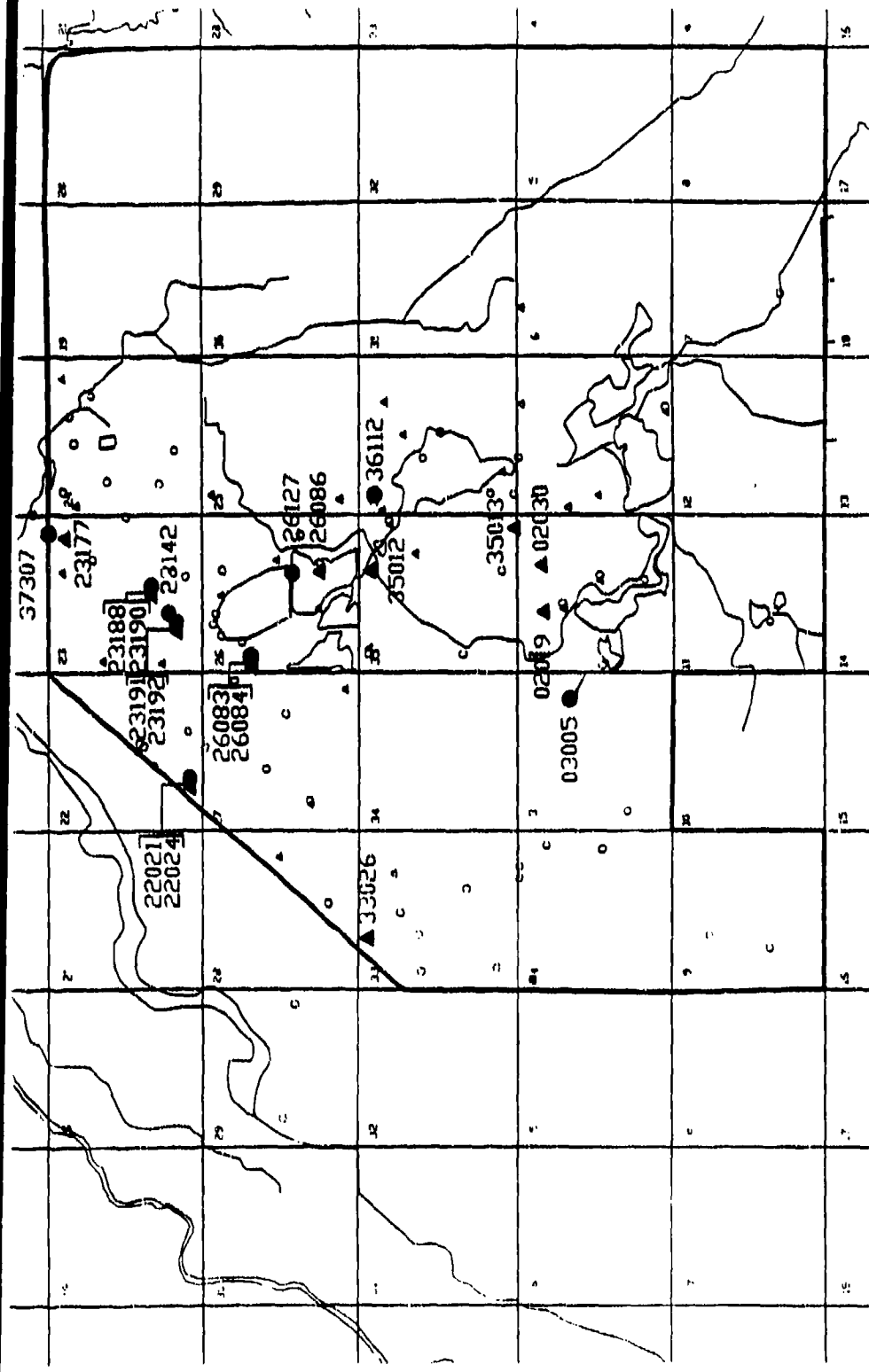
Prepared for:
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SOURCE: Hunter/ESE, 1988

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44 8 8 48





EXPLANATION

- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

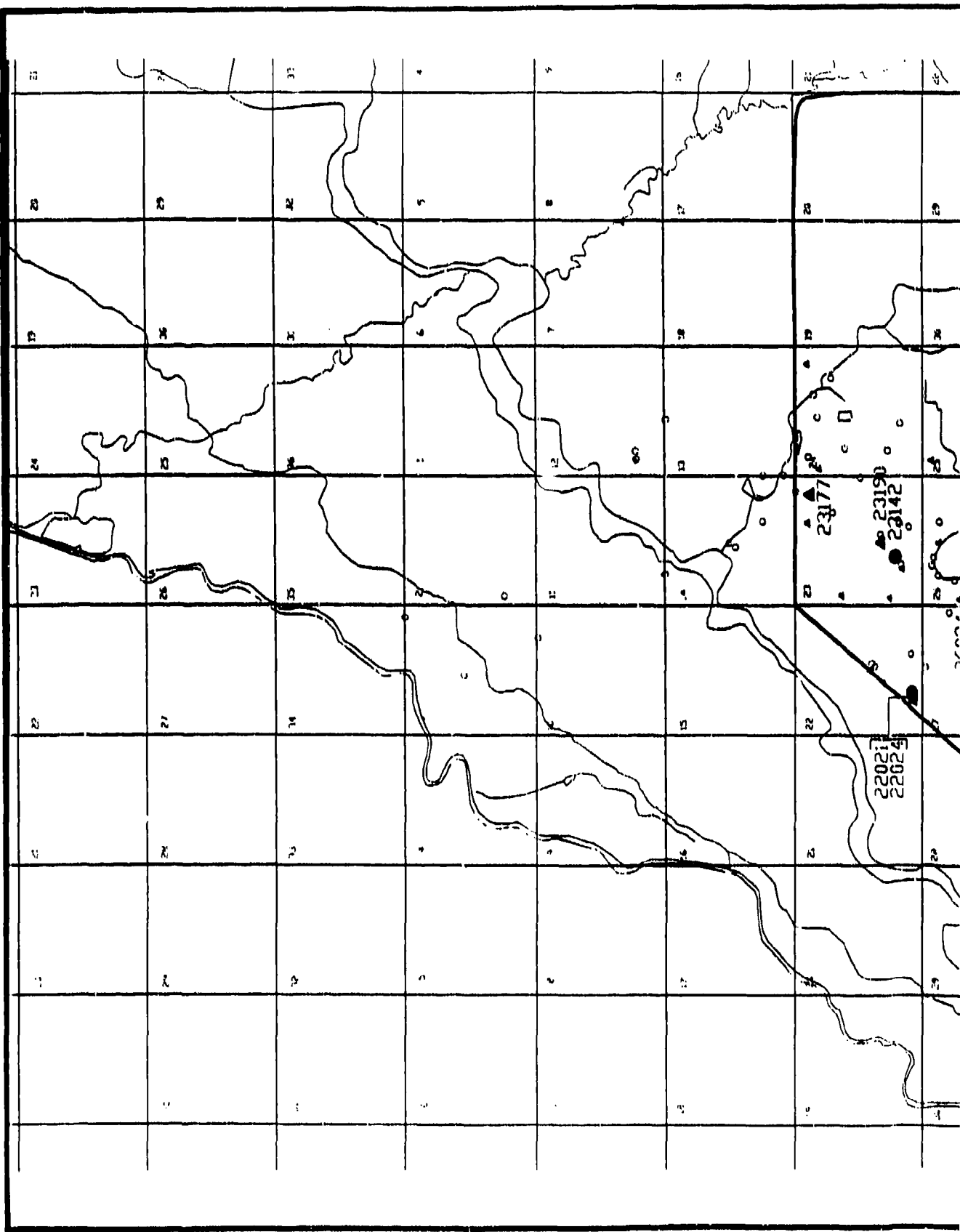
Figure D-184
TASK 4/44 GC/MS ANALYSIS NETWORK, OCTADECANE
DETECTIONS

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For Rocky Mountain Arsenal

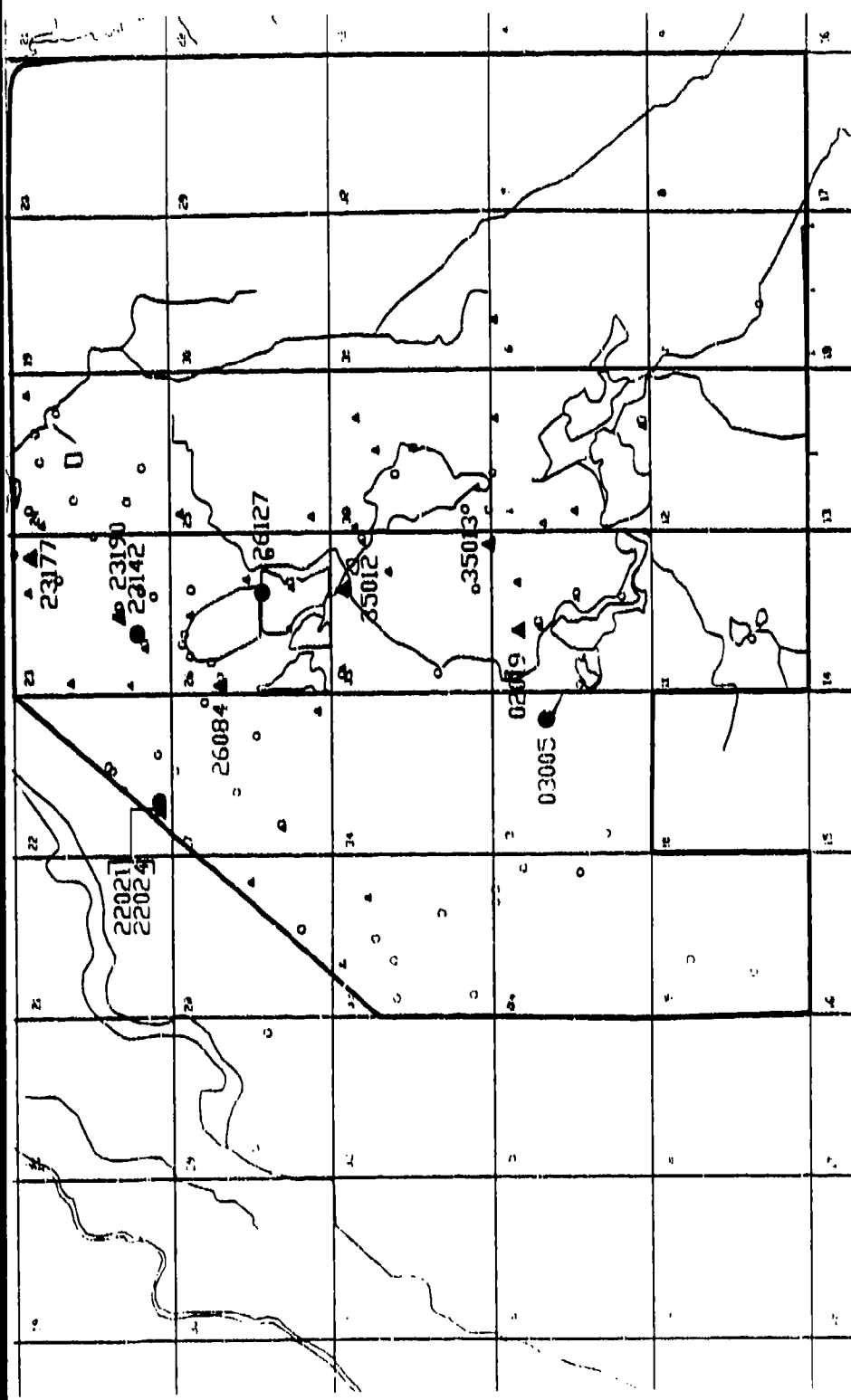
SOURCE: Hunter/ESE, 1988

Aberdeen Proving Ground, Maryland

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2



EXPLANATION

- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

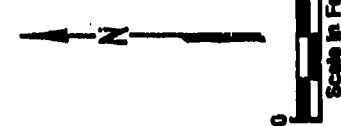


Figure D-185

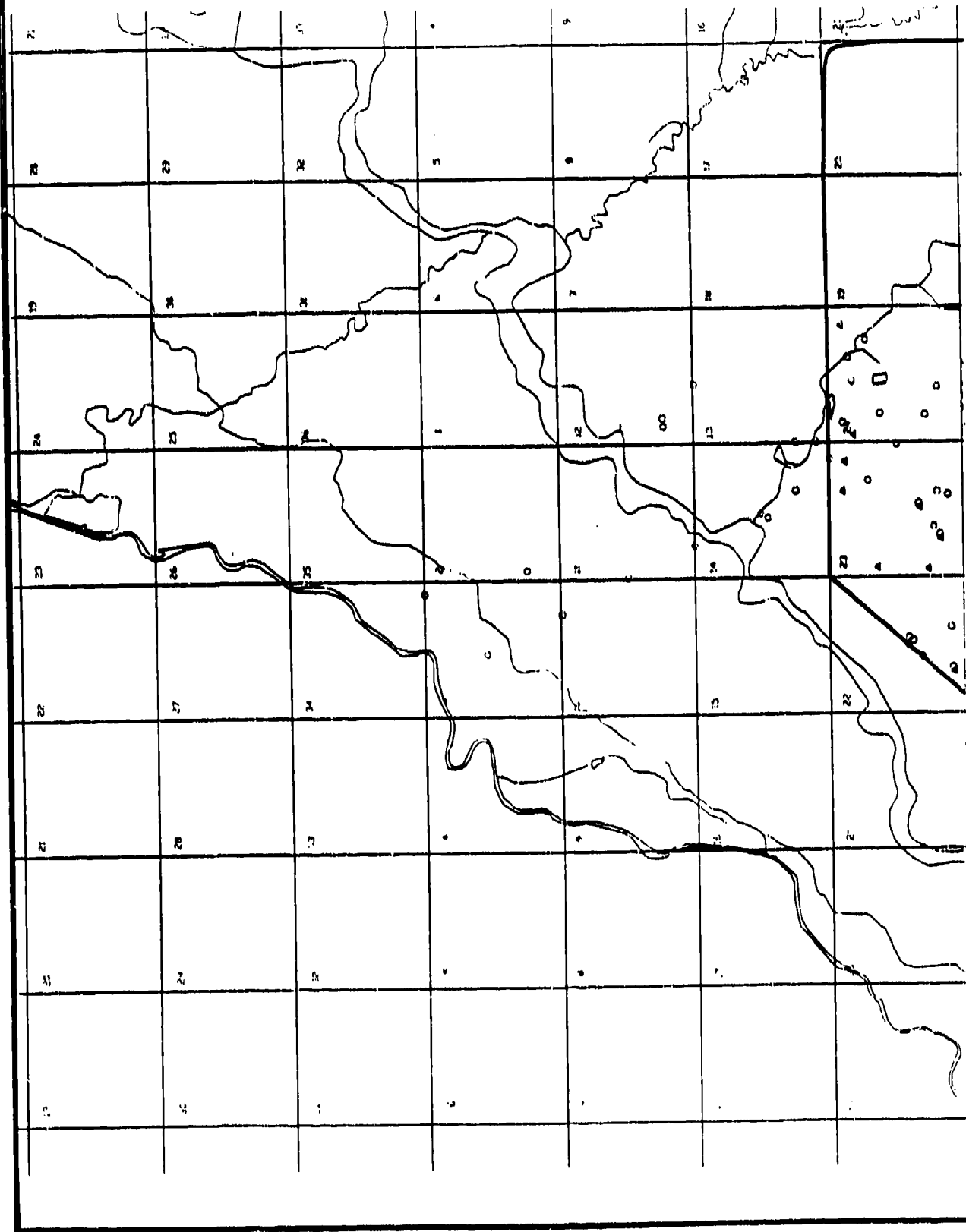
TASK 4/44 GC/MS ANALYSIS NETWORK, TETRADECANE
DETECTIONS

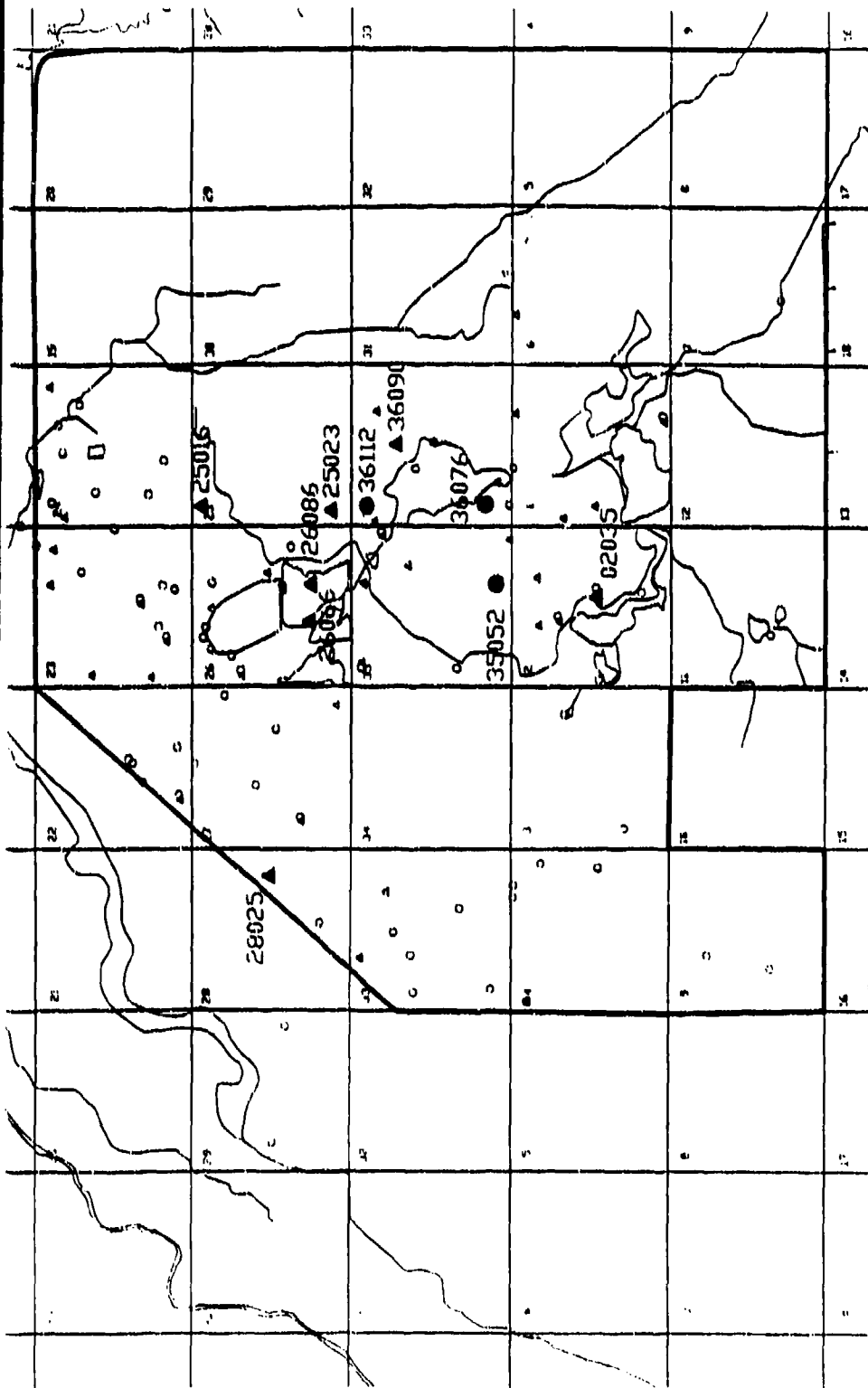
Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

SOURCE: Hunter/SE, 1986

Aberdeen Proving Ground, Maryland

0-40, T 44





EXPLANATION

- Alluriat Well, No Detection
- △ Denver Fm Well, No Detections
- Alluriat Detection And Well Number
- ▲ Denver Detection And Well Number

Figure D-186

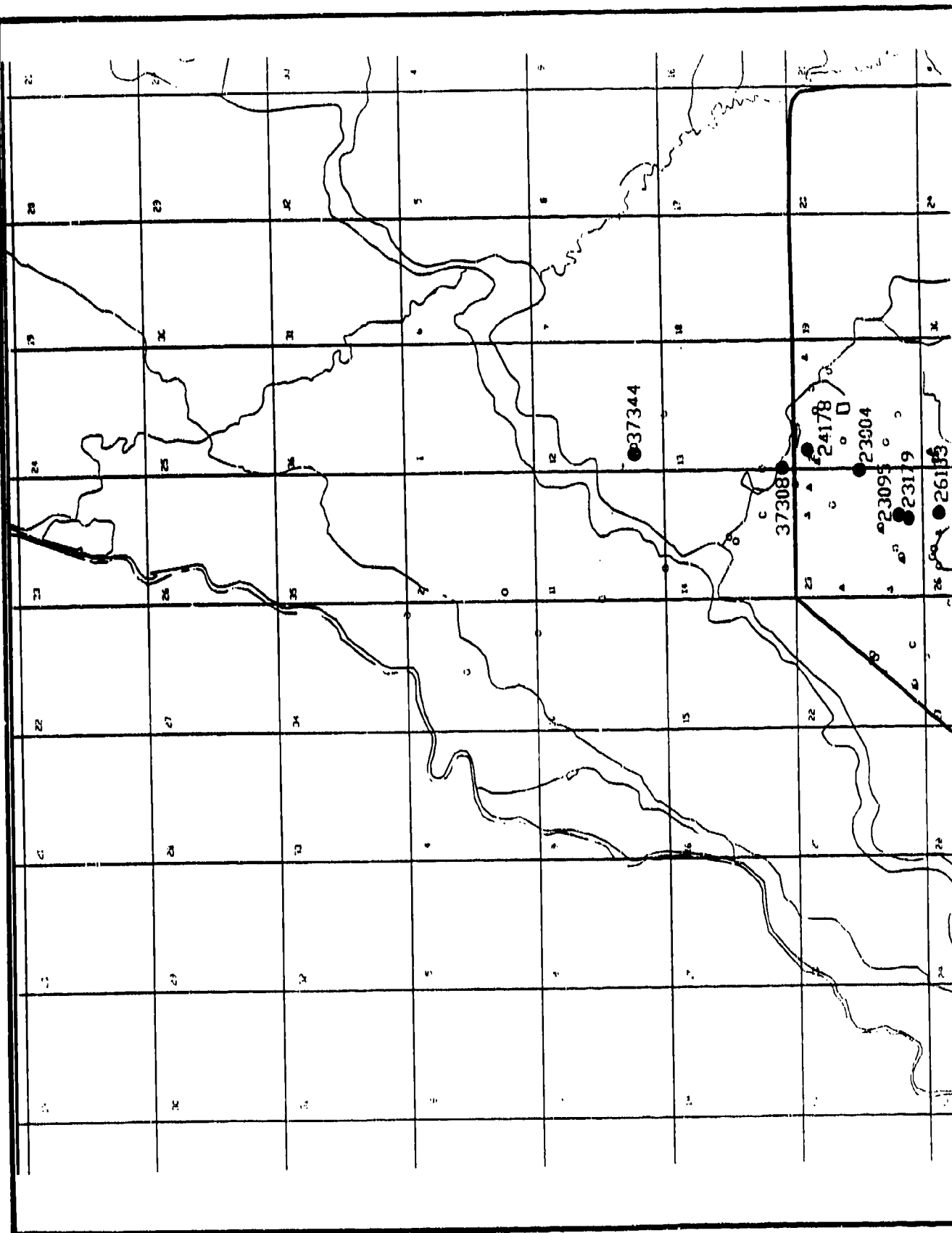
TASK 4/44 GC/MS ANALYSIS NETWORK, OCTADECANOIC ACID
DETECTIONS

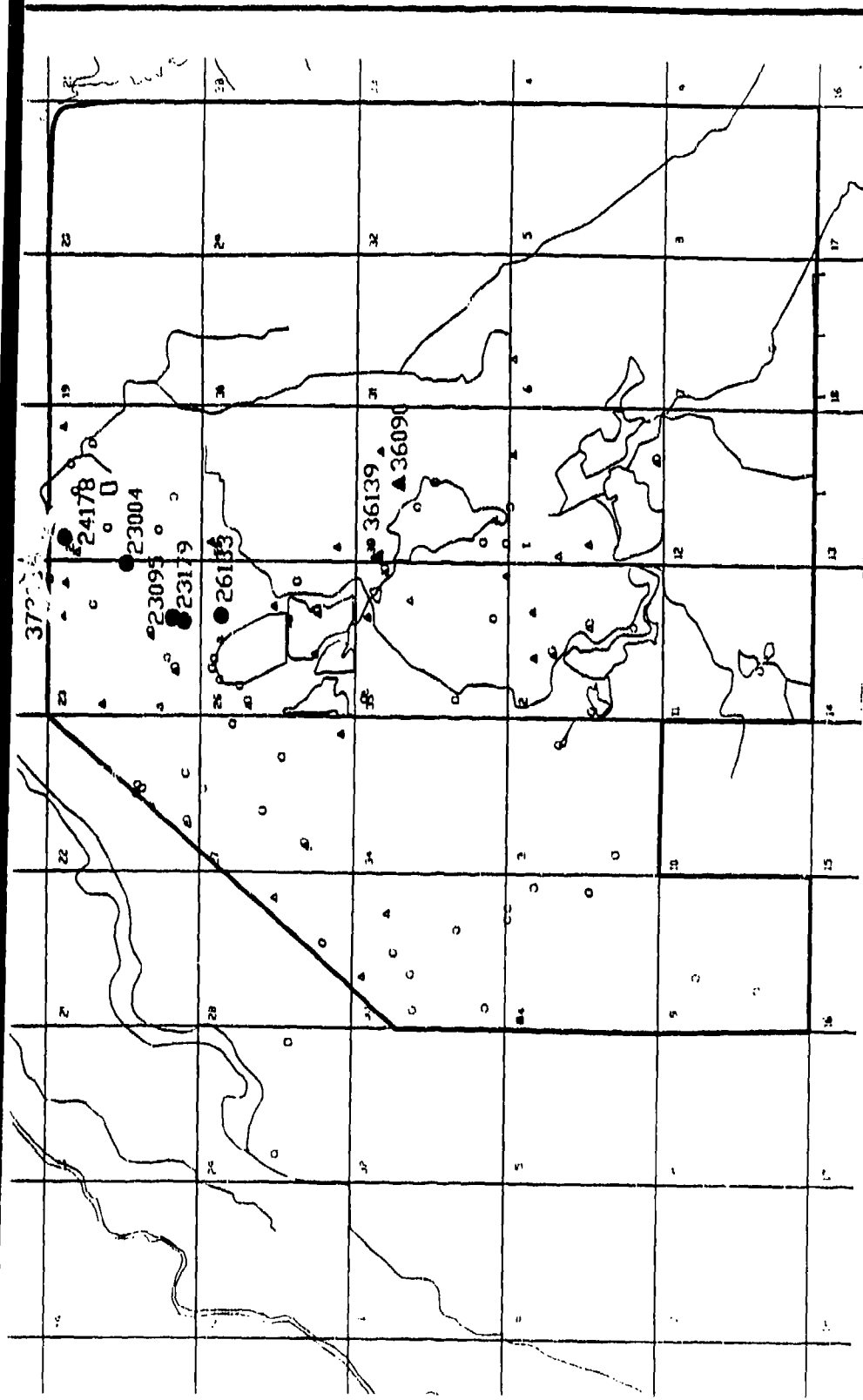
Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

SOURCE: Hunter/GE, 1988

Aberdeen Proving Ground, Maryland

648,744





EXPLANATION

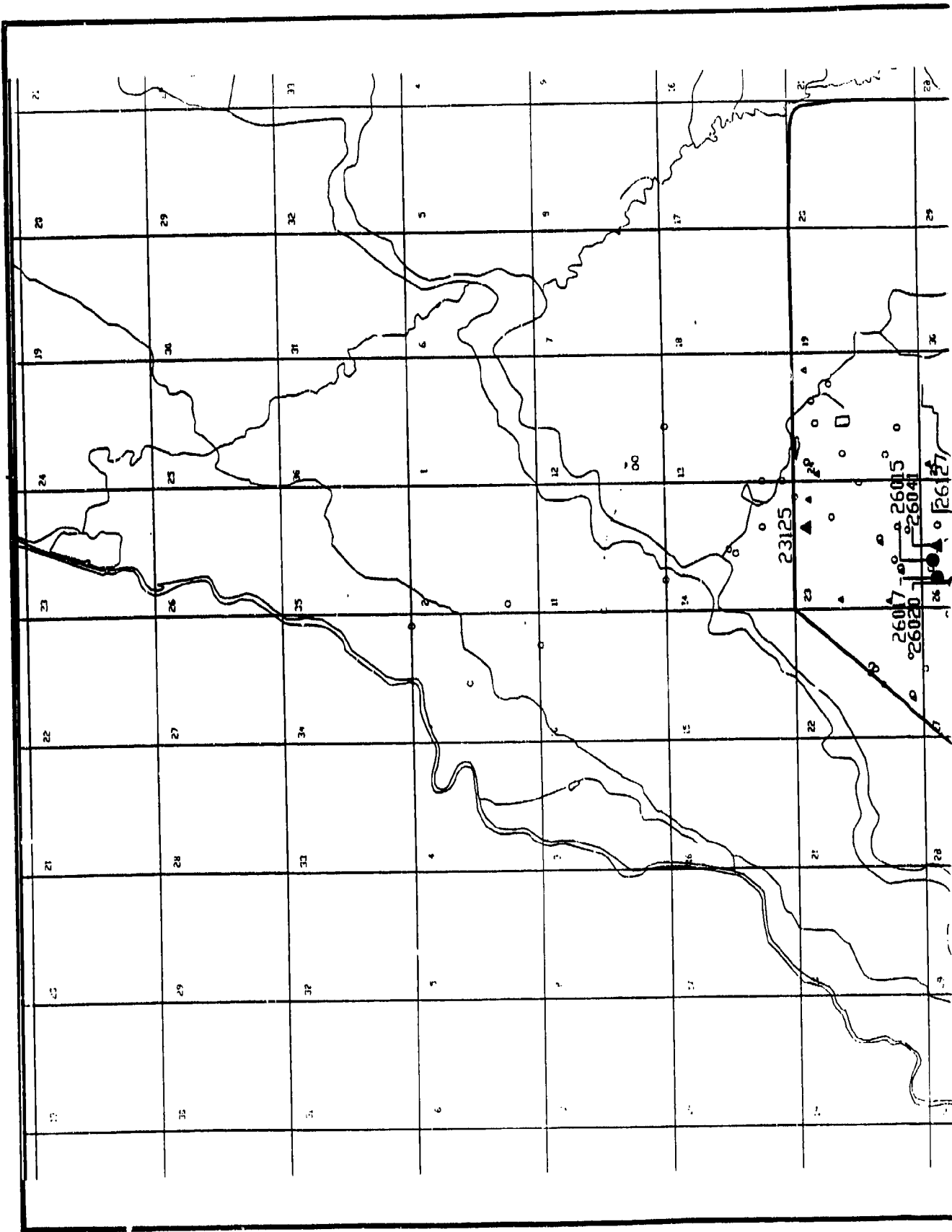
- Alluvial Well, No Detection
- △ Denver Fm Well, No Detections
- Alluvial Detection And Well Number
- ▲ Denver Detection And Well Number

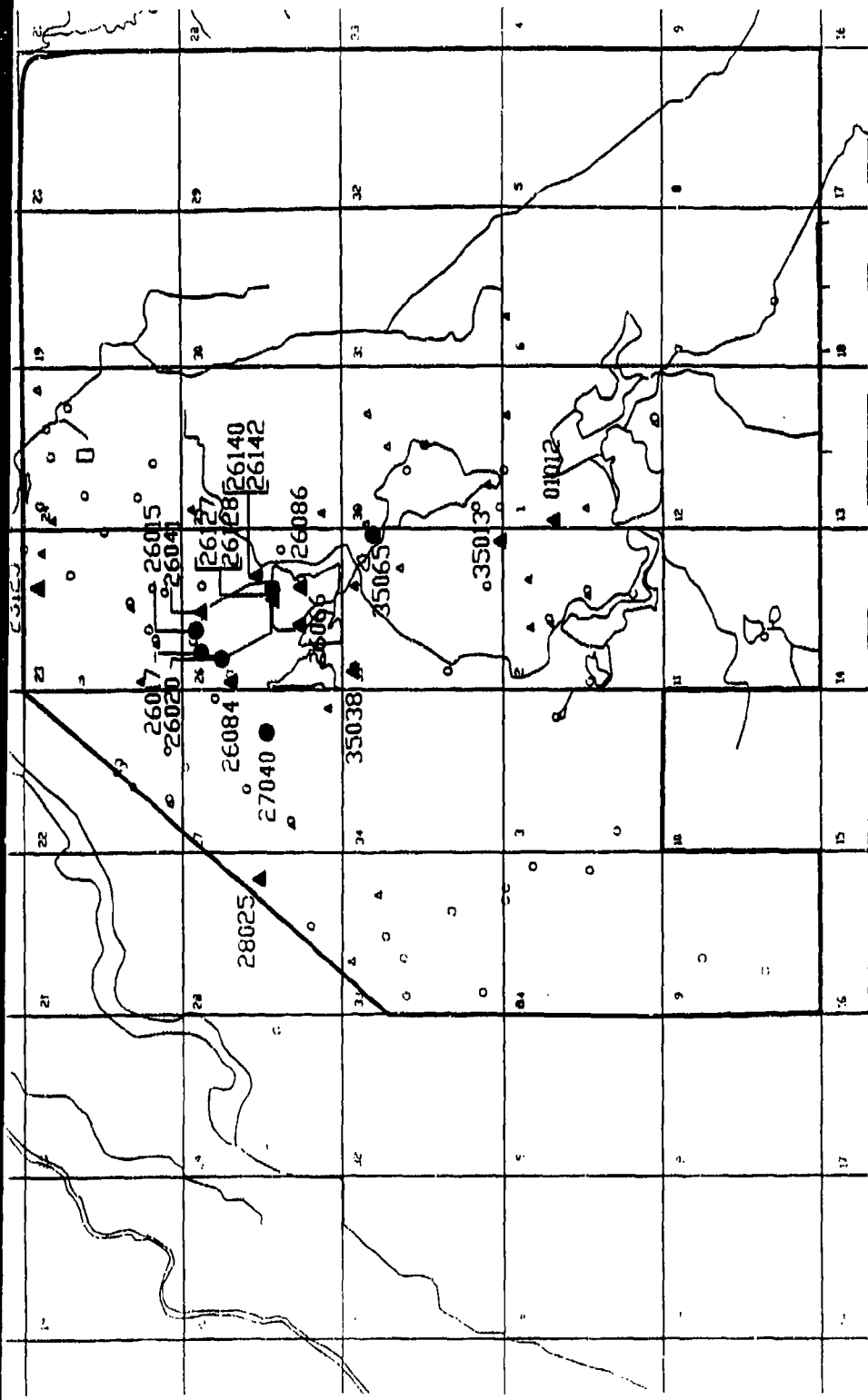
Figure D-187

TASK 4/44 GC/MS ANALYSIS NETWORK, TETRACHLOROETHENE
DETECTIONS

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal
Aberdeen Proving Ground, Maryland

8-65 T 44





EXPLANATION

- Alluvial Well, No Detection
- △ Denver Frm Well, No Detections
- Alluvial Detection And Well Number 1020
- ▲ Denver Detection And Well Number 35065

Figure D-188
TASK 4/44 GC/MS ANALYSIS NETWORK, TETRAHYDROFURAN
DETECTIONS

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

SOURCE: Hunter/ISE, 1988

Aberdeen Proving Ground, Maryland

APPENDIX D.7: GC/MS DATA

GC/MS DETECTIONS, MOST FREQUENTLY DETECTED NONTARGET COMPOUNDS

3RD QUARTER FY 1986 TASK 4 GC/MS CONFIRMATION DATA

FIELD GROUP NUMBERS TC44, T4BWC, AND OPW2C ARE GC/MS RESULTS

SAMPLE LIST 14C

STORET CODE:	FLD. GRP.	#	SAMPLE ID	DATE	TIME	90551	34306	39330	39430	39320	39300	39390	81500	90564	90563	90562	81512	90561
METHOD CODE:						BBB	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
PARAMETER:						DIMP	HCCP3	ALDRIN	ISODRIN	P.P'-DDE	DIELDRIN	ENDRIN	P.P'-DDT	1,4-DIAT	1,4-DITH	CYPS	BTZ	CYPSO
UNITS:						UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
TACC 3	3	01020	06/25/86	10:30	10:30	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 3	3	01020	06/25/86	10:30	10:30	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	4.96	33.5	<1.30	01512	08
TACH 9	9	11002	05/29/86	08:45	08:45	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 2	2	11002	05/29/86	08:45	08:45	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 4	4	02019	06/24/86	09:06	09:06	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 15	15	02019	06/24/86	09:06	09:06	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 5	5	02030	06/27/86	14:01	14:01	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 17	17	02030	06/27/86	14:01	14:01	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 6	6	02035	06/25/86	09:02	09:02	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 20	20	02035	06/25/86	09:02	09:02	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 7	7	02037	06/23/86	11:26	11:26	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 22	22	02037	06/23/86	11:26	11:26	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 8	8	02038	06/23/86	15:55	15:55	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 23	23	02038	06/23/86	15:55	15:55	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 9	9	02039	06/24/86	10:05	10:05	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 24	24	02039	06/24/86	10:05	10:05	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 11	11	22021	06/12/86	09:37	09:37	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 26	26	22021	06/12/86	09:37	09:37	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 12	12	22024	06/12/86	07:28	07:28	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 27	27	22024	06/12/86	07:28	07:28	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 13	13	23142	06/26/86	08:47	08:47	650	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 34	34	23142	06/26/86	08:47	08:47	96	<0.350	<0.350	<0.300	<0.265	<0.300	<0.260	<1.00	3.64	17.8	<1.30	01512	08
TACH 15	15	23177	06/12/86	15:00	15:00	24	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 36	36	23177	06/12/86	09:42	09:42	33	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 16	16	23179	06/12/86	09:42	09:42	510	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 37	37	23179	06/12/86	09:42	09:42	598	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 17	17	23185	06/19/86	10:03	10:03	3000	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 41	41	23185	06/19/86	10:03	10:03	4000	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 18	18	23188	06/19/86	11:46	11:46	670	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 44	44	23188	06/19/86	11:46	11:46	1100	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 19	19	23190	06/19/86	12:41	12:41	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 45	45	23190	06/19/86	12:41	12:41	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 16	16	24150	05/29/86	09:00	09:00	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 3	3	24150	05/29/86	09:00	09:00	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 20	20	24178	06/19/86	14:22	14:22	210	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 50	50	24178	06/19/86	14:22	14:22	290	<0.140	<0.140	<0.120	<0.106	<0.140	<0.140	<1.00	2.00	<1.00	<1.30	01512	08
TACH 21	21	25023	06/25/86	08:36	08:36	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 59	59	25023	06/25/86	08:36	08:36	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 23	23	26041	06/27/86	10:28	10:28	2300	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 65	65	26041	06/27/86	10:28	10:28	3100	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 22	22	26066	06/25/86	09:25	09:25	78	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 64	64	26066	06/25/86	09:25	09:25	80	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 24	24	26073	06/26/86	09:52	09:52	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 66	66	26073	06/26/86	09:52	09:52	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 25	25	26083	06/23/86	14:52	14:52	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 68	68	26083	06/23/86	14:52	14:52	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 26	26	26084	06/23/86	13:57	13:57	5.7	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 69	69	26084	06/23/86	13:57	13:57	11	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08
TACH 27	27	26085	06/26/86	14:28	14:28	92	<11.0	4.70	5.90	4.70	4.70	7.60	3.00	6.10	25.4	14.0	01512	08
TACH 70	70	26085	06/26/86	14:28	14:28	110	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<1.00	2.00	<1.00	<1.30	01512	08

SAMPLE LIST TAC

STORET CODE:	FLD. CRY.	8	SAMPLE ID	DATE	TIME	81506	34030	34019	34371	90553	90554	34423	34501	34496	34546	32106	34531	34506	32102
METHOD CODE:						RB	MS	MS	MS	MS	MS	YB	YB	YB	YB	YB	YB	YB	YB
PARAMETER:						NIKK	BEZENE	TOLUEN	ETHYLENZ	N-XYL	OSP-XYL	NETMTOL	110CE	110CCE	1120CE	CNCL3	120CCE	1111CE	CCL4
UNITS:						UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
T4CC	3	01020	06/25/06	10:30		2.00	10.0	1.00	1.00	1.00	2.00	11.4	2.75	16.6	4.19	1170	1.53	2.71	32102
T4CH	3	01020	06/25/06	10:30		12.9	1.34	1.21	1.28	1.35	2.47	6.16	1.10	24.0	12.0	200	6.10	17.0	34506
T4BH	9	11002	05/29/06	00:45		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4BHC	2	11002	05/29/06	00:45		2.00	1.96	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.00	1.00	1.00	34506
T4CC	4	02019	06/24/06	09:06		5.71	16.5	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.00	1.00	1.00	34506
T4CH	15	02019	06/24/06	09:06		12.9	37.2	4.52	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	5	02030	06/27/06	14:01		2.00	1.00	1.49	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.60	6.10	1.00	34506
T4CH	17	02030	06/27/06	14:01		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	115	6.10	1.70	34506
T4CC	6	02035	06/25/06	09:02		2.00	1.00	1.00	1.00	1.00	2.00	14.9	1.10	7.52	2.00	203	1.00	1.00	34506
T4CH	20	02035	06/25/06	09:02		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	8.38	2.00	195	6.10	1.70	34506
T4CC	7	02037	06/23/06	11:26		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	5.50	6.10	1.00	34506
T4CH	22	02037	06/23/06	11:26		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	2.79	6.10	1.70	34506
T4CC	8	02038	06/23/06	15:55		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	9.10	6.10	1.00	34506
T4CH	23	02038	06/23/06	15:55		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	7.44	6.10	1.70	34506
T4CC	9	02039	06/24/06	10:05		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.00	6.10	1.00	34506
T4CH	24	02039	06/24/06	10:05		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	11	22021	06/12/06	09:37		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	17.5	6.10	1.00	34506
T4CH	26	22021	06/12/06	09:37		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	11.6	6.10	1.70	34506
T4CC	12	22024	06/12/06	07:20		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.00	6.10	1.00	34506
T4CH	27	22024	06/12/06	07:20		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	13	23142	06/26/06	00:47		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.00	6.10	1.00	34506
T4CH	34	23142	06/26/06	00:47		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	15	23177	06/12/06	15:00		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.99	6.10	1.00	34506
T4CH	36	23177	06/12/06	15:00		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	16	23179	06/12/06	09:42		2.00	40.2	1.00	1.00	1.00	3.24	104	1.10	3.40	2.00	32006	115	1.00	34506
T4CH	37	23179	06/12/06	09:42		12.9	38.7	2.71	3.59	1.35	3.52	125	1.10	3.70	2.00	22500	6.10	1.70	34506
T4CC	17	23185	06/19/06	10:03		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.00	6.10	1.00	34506
T4CH	41	23185	06/19/06	10:03		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	18	23188	06/19/06	11:46		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.00	6.10	1.00	34506
T4CH	44	23188	06/19/06	11:46		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	19	23190	06/19/06	12:41		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.00	6.10	1.00	34506
T4CH	45	23190	06/19/06	12:41		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4BH	16	24150	05/29/06	09:00		2.00	3.70	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.00	6.10	1.00	34506
T4BHC	3	24150	05/29/06	09:00		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.00	6.10	1.00	34506
T4CH	20	24170	06/19/06	14:22		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CH	50	24170	06/19/06	14:22		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	21	25023	06/25/06	00:36		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.00	6.10	1.00	34506
T4CH	59	25023	06/25/06	00:36		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	23	26041	06/27/06	10:28		32.7	58.1	953	1.00	1.00	2.00	5.00	1.10	2.00	2.00	140	6.10	1.00	34506
T4CH	65	26041	06/27/06	10:28		12.9	50.6	1070	1.20	1.71	19.2	10.2	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	22	26066	06/25/06	09:25		2.00	2.10	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.00	6.10	1.00	34506
T4CH	64	26066	06/25/06	09:25		12.9	2.17	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	24	26073	06/26/06	09:52		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	15.1	6.10	1.00	34506
T4CH	66	26073	06/26/06	09:52		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	25	26083	06/23/06	14:52		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	12.0	6.10	1.00	34506
T4CH	68	26083	06/23/06	14:52		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	26	26084	06/23/06	13:57		2.00	16.4	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	1.00	6.10	1.00	34506
T4CH	69	26084	06/23/06	13:57		12.9	6.81	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	1.40	6.10	1.70	34506
T4CC	27	26085	06/26/06	14:20		2.00	1.00	1.00	1.00	1.00	2.00	5.00	1.10	2.00	2.00	27.0	6.10	1.00	34506
T4CH	70	26085	06/26/06	14:20		12.9	1.34	1.21	1.28	1.35	2.47	5.00	1.10	1.20	1.20	21.1	6.10	1.70	34506

SAMPLE LIST TAC

STORE CODE:
METHOD CODE:
PARAMETER:
UNITS:

FLD. GRP.	SAMPLE ID	DATE	TIME	34511 Y8 112TCE UG/L	34475 Y8 TOLCE UG/L	34301 Y8 CLGMS UG/L
T40C	3	01020	06/25/06 10:30	<1.00	8.03	50.3
T40C	3	01020	06/25/06 10:30	<1.00	4.67	12.7
T40C	9	11002	05/29/06 00:45	<1.00	<1.30	<0.500
T40C	2	11002	05/29/06 00:45	<1.00	<1.00	<2.00
T40C	4	02019	06/24/06 09:06	<1.00	<1.00	<2.00
T40C	15	02019	06/24/06 09:06	<1.00	<1.00	<0.500
T40C	5	02030	06/27/06 14:01	<1.00	<1.00	<2.00
T40C	17	02030	06/27/06 14:01	<1.00	<1.30	<0.500
T40C	6	02035	06/25/06 09:02	<1.00	2.53	<2.00
T40C	20	02035	06/25/06 09:02	<1.00	<1.30	8.64
T40C	7	02037	06/23/06 11:2	<1.00	<1.00	<2.00
T40C	22	02037	06/23/06 11:26	<1.00	<1.30	<0.500
T40C	8	02038	06/23/06 15:55	<1.00	<1.00	<2.00
T40C	23	02038	06/23/06 15:55	<1.00	<1.30	<0.500
T40C	9	02039	06/24/06 10:05	<1.00	<1.00	<2.00
T40C	24	02039	06/24/06 10:05	<1.00	<1.30	<0.500
T40C	11	22021	06/12/06 09:37	<1.00	<1.00	<2.00
T40C	26	22021	06/12/06 09:37	<1.00	<1.30	<0.500
T40C	12	22024	06/12/06 07:20	<1.00	<1.00	<2.00
T40C	27	22024	06/12/06 07:20	<1.00	<1.30	<0.500
T40C	13	23142	06/26/06 00:47	<1.00	<1.00	<2.00
T40C	34	23142	06/26/06 00:47	<1.00	<1.30	<0.500
T40C	15	23177	06/12/06 15:00	<1.00	<1.00	<2.00
T40C	36	23177	06/12/06 15:00	<1.00	<1.30	<0.500
T40C	16	23179	06/12/06 09:42	<1.00	75.2	<2.00
T40C	37	23179	06/12/06 09:42	<1.00	75.5	<0.500
T40C	17	23185	06/19/06 10:03	<1.00	<1.00	<2.00
T40C	41	23185	06/19/06 10:03	<1.00	<1.30	<0.500
T40C	18	23188	06/19/06 11:46	<1.00	<1.00	<2.00
T40C	44	23188	06/19/06 11:46	<1.00	<1.30	<0.500
T40C	19	23190	06/19/06 12:41	<1.00	<1.00	<2.00
T40C	45	23190	06/19/06 12:41	<1.00	<1.30	<0.500
T40C	16	24150	05/29/06 09:00	<1.00	<1.30	<0.500
T40C	3	24150	05/29/06 09:00	<1.00	<1.00	<2.00
T40C	20	24178	06/19/06 14:22	<1.00	57.4	<2.00
T40C	50	24178	06/19/06 14:22	<1.00	49.2	<0.500
T40C	21	25023	06/25/06 00:36	<1.00	<1.00	<2.00
T40C	59	25023	06/25/06 00:36	<1.00	<1.30	<0.500
T40C	23	26041	06/27/06 10:28	<1.00	<1.00	2.16
T40C	65	26041	06/27/06 10:28	<1.00	<1.30	2.77
T40C	22	26066	06/25/06 09:25	<1.00	4.27	9.67
T40C	64	26066	06/25/06 09:25	<1.00	3.96	7.60
T40C	24	26073	06/26/06 09:52	<1.00	<1.00	<2.00
T40C	66	26073	06/26/06 09:52	<1.00	<1.30	<0.500
T40C	25	26083	06/23/06 14:52	<1.00	<1.00	<2.00
T40C	68	26083	06/23/06 14:52	<1.00	<1.30	<0.500
T40C	26	26084	06/23/06 13:57	<1.00	<1.00	<2.00
T40C	69	26084	06/23/06 13:57	<1.00	<1.30	<0.500
T40C	27	26085	06/26/06 14:20	<1.00	<1.00	<2.00
T40C	70	26085	06/26/06 14:20	<1.00	<1.30	<0.500

SAMPLE LIST T4C

STORET CODE:	FLD. GRP.	SAMPLE ID	DATE	TIME	90551	34306	39330	39430	39320	39300	39350	39300	81500	90564	90563	90562	81512	90561
METHOD CODE:					BIB	S8	S8	S8	P.P.-BOX	BIELDWIN	ENDWIN	S8	DVDS	I.4-DIAT	U8	U8	U8	U8
PARAMETER:					DIMP	MCDP0	ALDRIN	ISODRIN	P.P.-BOX	DIELDWIN	ENDWIN	S8						
UNITS:					UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
T4C 28	26006	06/24/06	13:55	170	<11.0	<0.070	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
T4C 71	26006	06/24/06	13:55	210	<0.070	<0.070	<0.070	<0.060	<0.053	<0.620	0.142	<0.070	<1.00	<2.00	13.6	<1.30	<4.20	<4.20
T4C 29	26127	06/26/06	12:58	1900	<11.0	<11.0	5.20	<5.90	<4.70	12.7	<7.60	<10.0	<3.00	<6.10	74.8	<14.0	<17.0	<17.0
T4C 72	26127	06/26/06	12:58	1900	<0.070	<0.070	5.64	<5.90	<0.053	1.49	0.391	<0.070	<3.00	5.35	59.6	<14.0	<17.0	<17.0
T4C 30	26127	06/26/06	13:34	1000	<11.0	<11.0	5.64	<5.90	<0.053	1.49	0.391	<0.070	<3.00	<6.10	42.3	<14.0	<17.0	<17.0
T4C 73	26128	06/24/06	13:34	1700	<0.070	<0.070	1.00	<0.060	<0.530	6.41	1.34	<0.700	<1.00	7.02	72.4	2.62	<4.20	<4.20
T4C 31	26133	06/27/06	09:06	690	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	26.5	69.1	527	<17.0	<17.0
T4C 74	26133	06/27/06	09:06	950	<0.070	<0.070	<4.70	<0.060	<0.530	<0.600	<0.520	<0.700	<1.00	15.4	59.7	612	14.6	14.6
T4C 32	26140	06/24/06	08:52	<5.7	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
T4C 75	26140	06/24/06	08:52	<11	<0.070	<0.070	<0.070	<0.060	<0.053	0.537	0.103	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
T4C 33	27040	06/19/06	09:15	36	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
T4C 00	27040	06/19/06	09:15	44	<0.070	<0.070	<0.070	<0.060	<0.530	<0.600	<0.520	<0.700	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
T4C 34	27062	06/12/06	10:52	27	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
T4C 87	27062	06/12/06	10:52	29	<0.070	<0.070	<0.070	<0.060	<0.053	0.119	<0.052	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
T4C 35	28025	06/19/06	14:35	<5.7	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
T4C 89	28025	06/19/06	14:35	<11	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
T4C 06	28027	06/04/06	07:44	<5.7	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
T4C 35	28027	06/04/06	07:44	<5.7	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
T4C 10	03005	06/11/06	11:50	<5.7	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
T4C 25	03005	06/11/06	11:50	<11	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
T4C 7	33060	06/04/06	08:56	<5.7	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
T4C 26	33060	06/04/06	08:56	3500	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
T4C 36	35012	06/11/06	16:18	10000	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	28.7	192	<14.0	<17.0	<17.0
T4C 94	35012	06/11/06	16:18	<5.7	<0.070	<0.070	<0.070	<0.060	<0.053	0.220	<0.052	<0.070	<1.00	37.4	345	<14.0	<17.0	<17.0
T4C 37	35013	06/12/06	14:21	<11	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
T4C 95	35013	06/12/06	14:21	<5.7	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
T4C 38	35052	06/25/06	12:01	<11	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
T4C 100	35052	06/25/06	12:01	<5.7	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
T4C 39	35065	06/30/06	09:43	2500	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	23.7	134	<14.0	<17.0	<17.0
T4C 106	35065	06/30/06	09:43	1900	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	9.44	86.7	<14.0	<17.0	<17.0
T4C 1	03523	06/04/06	13:47	<5.7	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
T4C 1	03523	06/04/06	13:47	<5.7	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
T4C 40	36001	06/23/06	14:09	<11	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
T4C 109	36001	06/23/06	14:09	<5.7	<0.070	<0.070	<0.070	<0.060	<0.053	0.659	5.66	<0.700	<1.00	27.9	28.2	<14.0	<17.0	<17.0
T4C 41	36076	06/25/06	14:24	<11	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	32.6	42.8	14.4	19.9	19.9
T4C 113	36076	06/25/06	14:24	<5.7	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
T4C 42	36082	06/27/06	10:02	490	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	179	972	<14.0	<17.0	<17.0
T4C 114	36082	06/27/06	10:02	590	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	76.8	679	<14.0	<17.0	<17.0
T4C 43	36112	06/30/06	08:52	1000	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	73.3	450	<14.0	<17.0	<17.0
T4C 117	36112	06/30/06	08:52	1500	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
OP042 2	37307	06/18/06	11:41	41	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
OP042C 2	37307	06/18/06	11:41	35	<0.070	<0.070	<0.070	<0.060	<0.053	0.521	<0.052	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
OP042C 3	37308	06/16/06	15:17	330	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
OP042C 5	37308	06/16/06	15:17	270	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
OP042C 1	37312	06/17/06	11:13	22	<0.070	<0.070	<0.070	<0.060	<0.053	1.42	1.11	<0.140	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
OP042C 12	37332	06/16/06	11:58	<11	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
OP042C 5	37332	06/16/06	11:58	<5.7	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0
OP042C 21	37343	06/13/06	08:34	1100	<0.070	<0.070	<0.070	<0.060	<0.053	<0.060	<0.052	<0.070	<1.00	<2.00	<11.0	<14.0	<17.0	<17.0
OP042C 6	37343	06/13/06	08:39	36	<11.0	<11.0	<4.70	<5.90	<4.70	<4.70	<7.60	<10.0	<3.00	<6.10	<11.0	<14.0	<17.0	<17.0

SAMPLE LIST T4C

STORET CODE:
METHOD CODE:
PARAMETER:
UNITS:

FLD	GRP	SAMPLE ID	DATE	TIME	34511 T8 112TCE UG/L	34475 T8 TCEEE UG/L	34301 T8 CLC645 UG/L
T4CC	28	26006	06/24/06	13:55	<1.00	<1.00	<2.00
T4CH	71	26006	06/24/06	13:55	<1.00	<1.30	<0.500
T4CC	29	26127	06/26/06	12:58	<1.00	<1.00	2.37
T4CH	72	26127	06/26/06	12:58	<1.00	<1.30	<0.500
T4CC	30	26128	06/24/06	13:34	<1.00	<1.00	2.37
T4CH	73	26128	06/24/06	13:34	<1.00	<1.30	2.63
T4CC	31	26133	06/27/06	09:06	<1.00	495	<200
T4CH	74	26133	06/27/06	09:06	<1.00	510	5.25
T4CC	32	26140	06/24/06	08:52	<1.00	<1.00	<2.00
T4CH	75	26140	06/24/06	08:52	<1.00	<1.30	<0.500
T4CC	33	27040	06/19/06	09:15	<1.00	<1.00	<2.00
T4CH	80	27040	06/19/06	09:15	<1.00	<1.30	<0.500
T4CC	34	27062	06/12/06	10:52	<1.00	<1.00	<2.00
T4CH	87	27062	06/12/06	10:52	<1.00	<1.30	<0.500
T4CC	35	28025	06/19/06	14:35	<1.00	<1.00	<2.00
T4CH	89	28025	06/19/06	14:35	<1.00	<1.30	<0.500
T4CC	6	28027	06/04/06	07:44	<1.00	<1.00	<2.00
T4CH	35	28027	06/04/06	07:44	<1.00	<1.30	<0.500
T4CC	18	33005	06/11/06	11:50	<1.00	<1.00	<2.00
T4CH	25	33005	06/11/06	11:50	<1.00	<1.30	<0.500
T4CC	7	33060	06/04/06	08:56	<1.00	<1.00	<2.00
T4CH	26	33060	06/04/06	08:56	<1.00	<1.30	<0.500
T4CC	36	35012	06/11/06	16:18	<1.00	<1.00	89.0
T4CH	94	35012	06/11/06	16:18	<1.00	<1.30	58.3
T4CC	37	35013	06/12/06	14:21	<1.00	4.03	<2.00
T4CH	95	35013	06/12/06	14:21	<1.00	4.31	<0.500
T4CC	38	35052	06/25/06	12:01	<1.00	<1.00	18.3
T4CH	100	35052	06/25/06	12:01	<1.00	<1.30	<0.500
T4CC	39	35065	06/30/06	09:08	<1.00	19.7	<20.0
T4CH	106	35065	06/30/06	09:08	<1.00	15.4	5.76
T4CC	1	63523	06/04/06	13:47	<1.00	<1.00	<2.00
T4CH	1	93523	06/04/06	13:47	<1.00	<1.30	<0.500
T4CC	40	36001	06/23/06	14:09	<1.00	227	28200
T4CH	109	36001	06/23/06	14:09	<1.00	164	30000
T4CC	41	36076	06/25/06	14:24	<1.00	<1000	16500
T4CH	113	36076	06/25/06	14:24	3.00	8.27	6300
T4CC	42	36082	06/27/06	10:02	<1.00	<1.00	413
T4CH	114	36082	06/27/06	10:02	<1.00	<1.30	1.90
T4CC	43	36112	06/30/06	08:52	<1.00	<1.00	<2.00
T4CH	117	36112	06/30/06	08:52	<1.00	1.00	<0.500
OPCHZ	2	37307	06/10/06	11:41	<1.00	<1.30	<0.500
OPCHZ	2	37307	06/10/06	11:41	<1.00	<1.00	<2.00
OPCHZ	3	37308	06/16/06	15:17	<1.00	48.5	<0.500
OPCHZ	3	37308	06/16/06	15:17	<1.00	36.3	<2.00
OPCHZ	5	37312	06/17/06	11:13	<1.00	<1.30	<0.500
OPCHZ	1	37312	06/17/06	11:13	<1.00	<1.00	<2.00
OPCHZ	12	37332	06/16/06	11:58	<1.00	<1.30	<0.500
OPCHZ	5	37332	06/16/06	11:58	<1.00	<1.00	<2.00
OPCHZ	21	37343	06/13/06	00:34	<1.00	<1.30	<0.500
OPCHZ	6	37343	06/13/06	00:39	<1.00	<1.00	<2.00

SAMPLE LIST 14C

STORNET CODE:

METHOD CODE: 3003 0041.3M

PARAMETER:

:51160

FLO. CRP.	#	SAMPLE ID	DATE	TIME
T4CC 28	26066	06/24/06	13:55	
T4CC 71	26066	06/24/06	13:55	
T4CC 29	26127	06/26/06	12:58	
T4CC 72	26127	06/26/06	12:58	
T4CC 30	26128	06/24/06	13:34	
T4CC 73	26128	06/24/06	13:34	
T4CC 31	26133	06/21/06	09:06	
T4CC 74	26133	06/21/06	09:06	
T4CC 32	26148	06/24/06	00:52	
T4CC 75	26148	06/24/06	00:52	
T4CC 33	27049	06/19/06	09:15	
T4CC 80	27049	06/19/06	09:15	
T4CC 34	27062	06/12/06	10:52	
T4CC 87	27062	06/12/06	10:52	
T4CC 35	28025	06/19/06	14:35	
T4CC 89	28025	06/19/06	14:35	
T4MC 6	28027	06/04/06	07:44	
T4MC 35	28027	06/04/06	07:44	
T4CC 10	03005	06/11/06	11:50	
T4CC 25	03005	06/11/06	11:50	
T4MC 7	33068	06/04/06	00:56	
T4MC 26	33068	06/04/06	00:56	
T4CC 36	35012	06/11/06	16:18	
T4CC 94	35012	06/11/06	16:18	
T4CC 37	35013	06/12/06	14:21	
T4CC 95	35013	06/12/06	14:21	
T4CC 38	35052	06/25/06	12:01	
T4CC 100	35052	06/25/06	12:01	
T4CC 39	35065	06/30/06	09:48	
T4CC 106	35065	06/30/06	09:48	
T4MC 1	03523	06/04/06	13:47	
T4MC 1	03523	06/04/06	13:47	
T4CC 40	36001	06/23/06	14:09	
T4CC 109	36001	06/23/06	14:09	
T4CC 41	36076	06/25/06	14:24	
T4CC 113	36076	06/25/06	14:24	
T4CC 42	36082	06/27/06	10:02	
T4CC 114	36082	06/27/06	10:02	
T4CC 43	36112	06/30/06	00:52	
T4CC 117	36112	06/30/06	00:52	
OPCHZ 2	37307	06/10/06	11:41	
OPCHZ 2	37307	06/10/06	11:41	
OPCHZ 3	37308	06/16/06	15:17	
OPCHZ 3	37308	06/16/06	15:17	
OPCHZ 5	37312	06/17/06	11:13	
OPCHZ 1	37312	06/17/06	11:13	
OPCHZ 12	37332	06/16/06	11:58	
OPCHZ 5	37332	06/16/06	11:58	
OPCHZ 21	37343	06/13/06	00:34	
OPCHZ 6	37343	06/13/06	00:34	

SAMPLE LIST T4C

STORET CODE:	FLD. CRP.	SAMPLE ID	DATE	TIME	81596	24030	34016	34371	90553	90554	34423	34591	34496	34546	32106	34531	34596	32102
RETMOO CODE:					NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
PARAMETER:					HILOK	BENZENE	TOLUENE	ETHYLBENZ	M-XYL	OMP-XYL	METHYLCL	IIDCE	IIDCE	Y12DCE	CHCL3	12DCE	111TCE	CL4
UNITS:					UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
OPCH2 31		37353	06/12/86	11:32	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	<1.40	<6.610	<1.70	<2.40
OPCH2C 8		37353	06/12/86	11:32	4.01	<1.90	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
OPCH2 32		37354	06/11/86	10:06	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	<1.40	<6.610	<1.70	<2.40
OPCH2C 4		37354	06/11/86	10:06	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	2.21	<1.00	<1.00	<2.00
T4WC 2		04007	06/04/86	14:13	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	7.38	<1.00	<1.00	<1.00	<2.00
T4WC 2		04007	06/04/86	14:13	<2.00	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	8.64	<1.00	<6.610	<1.70	<2.40
T4WC 3		04030	06/04/86	00:24	<2.00	3.31	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	4.21	4.40	<6.610	<1.00	<2.00
T4WC 10		04030	06/04/86	00:24	<2.00	2.96	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	2.54	3.29	<6.610	<1.70	<2.40
T4WC 4		04033	06/04/86	09:01	<2.00	36.6	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4WC 13		04033	06/04/86	09:01	<2.00	266	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<6.610	<1.70	<2.40
T4WC 4		06005	06/04/86	11:37	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<6.610	<1.70	<2.40
T4WC 4		06005	06/04/86	11:37	<2.00	12.1	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4WC 5		07001	05/29/86	11:26	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<6.610	<1.70	<2.40
T4WC 1		07001	05/29/86	11:26	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4WC 5		09005	06/05/86	11:05	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	19.9	<1.00	<1.00	<1.00	<2.00
T4WC 15		09005	06/05/86	11:05	<2.00	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	7.29	<1.00	<6.610	<1.70	<2.40
OPCH2 8		BOLLER	07/01/86	09:32	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	27.3	<6.610	<1.70	<2.40
OPCH2C 7		BOLLER	07/01/86	09:32	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	39.7	<1.00	<1.00	<2.00
T4CC 1		01012	06/25/86	12:58	2.58	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	3.87	2.86	<1.00	<1.00	<2.00
T4CC 1		01012	06/25/86	12:58	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	3.62	1.95	<6.610	<1.70	<2.40
T4CC 2		01014	07/01/86	00:36	<200	185000	1090	441	1090	846	<500	<1.10	<2.00	<200	<100	<100	<100	<200
T4CC 2		01014	07/01/86	00:36	<12.9	212000	832	273	696	1740	<5.00	<1.10	<2.00	<1.20	<1.40	8.00	<1.70	<2.40

SAMPLE LIST T4C

STORET CODE:	FLO. CRP.	#	SAMPLE ID	DATE	TIME	34511 Y8 11ZTCE UG/L	34475 Y8 TCLCE UG/L	34301 Y8 GLC6H5 UG/L
OPG42C	31	37353	06/12/86	11:32		<1.00	<1.30	<0.500
OPG42C	6	37353	06/12/86	11:32		<1.00	<1.00	<2.00
OPG42C	32	37354	06/11/86	10:06		<1.00	<1.30	<0.500
OPG42C	4	37354	06/11/86	10:06		<1.00	<1.00	<2.00
T4MC	2	04007	06/04/86	14:13		<1.00	1.03	<2.00
T4MC	2	04007	06/04/86	14:13		<1.00	2.11	<0.500
T4MC	3	04030	06/04/86	00:24		<1.00	<1.00	<2.00
T4MC	10	04030	06/04/86	00:24		<1.00	<1.30	<0.500
T4MC	4	04033	06/04/86	09:01		<1.00	<1.00	<2.00
T4MC	13	04033	06/04/86	09:01		<1.00	<1.30	<0.500
T4MC	4	04005	06/04/86	11:37		<1.00	<1.30	<0.500
T4MC	4	6005	06/04/86	11:37		<1.00	<1.00	<2.00
T4MC	5	07001	05/29/86	11:26		<1.00	<1.30	<0.500
T4MC	1	07001	05/29/86	11:26		<1.00	<1.00	<2.00
T4MC	5	09005	06/05/86	11:05		<1.00	2.01	<2.00
T4MC	15	09005	06/05/86	11:05		<1.00	1.04	<0.500
OPG42C	8	BOLLER	07/01/86	09:32		<1.00	6.56	<0.500
OPG42C	7	BOLLER	07/01/86	09:32		<1.00	5.90	<2.00
T4CC	1	01012	06/25/86	12:50		<1.00	15.8	<2.00
T4CC	1	01012	06/25/86	12:50		<1.00	10.8	<0.500
T4CC	2	01014	07/01/86	00:36		<100	<100	<200
T4CC	2	01014	07/01/86	00:36		<1.00	<1.30	<0.500

SAMPLE LIST T4C

STORET CODE:	FLD. CRP.	SAMPLE ID	DATE	TIME	99133	99133	99133	99133	77985	77985	77985
METHOD CODE:					DBCP	DBCP	DBCP	DBCP	DBCP	DBCP	DBCP
PARAMETER:					UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
UNITS:											
OPCH2C 31	37353	06/12/06	11:32		<0.130	<15	<4.0	<9.31	<4.7	<2.0	<2.0
OPCH2C 32	37354	06/11/06	10:06		<0.130	<15	<4.0	<9.31	<4.7	<2.0	<2.0
OPCH2C 4	37354	06/11/06	10:06			<15	<4.0		<4.7	<2.0	<2.0
T4WC 2	04007	06/04/06	14:13		<0.130	<15	<4.0		<4.7	<2.0	<2.0
T4WC 3	04030	06/04/06	08:24		<0.130	<15	<4.0		<4.7	<2.0	<2.0
T4WC 10	04030	06/04/06	08:24		<0.130	<15	<4.0		<4.7	<2.0	<2.0
T4WC 4	04033	06/04/06	09:01		<0.130	<15	<4.0		<4.7	<2.0	<2.0
T4WC 13	04033	06/04/06	09:01		<0.130	<15	<4.0		<4.7	<2.0	<2.0
T4WC 4	06005	06/04/06	11:37		<0.130	<15	<4.0		<4.7	<2.0	<2.0
T4WC 4	6005	06/04/06	11:37		<0.130	<15	<4.0		<4.7	<2.0	<2.0
T4WC 5	07001	05/29/06	11:26		<0.130	<15	<4.0		<4.7	<2.0	<2.0
T4WC 1	07001	05/29/06	11:26		<0.130	<15	<4.0		<4.7	<2.0	<2.0
T4WC 5	09005	06/05/06	11:05		<0.130	<15	<4.0		<4.7	<2.0	<2.0
T4WC 15	09005	06/05/06	11:05		<0.130	<15	<4.0		<4.7	<2.0	<2.0
OPCH2C 8	BOLLER	07/01/06	09:32		0.332	<15	<4.0	<9.31	<4.7	<2.0	<2.0
OPCH2C 7	BOLLER	07/01/06	09:32			<15	<4.0		<4.7	<2.0	<2.0
T4CC 1	01012	06/25/06	12:50			<15	<4.0		<4.7	<2.0	<2.0
T4CC 1	01012	06/25/06	12:50		0.244						
T4CC 2	01014	07/01/06	00:36		<0.130	<75	<400	<9.31	72000	3700	3700
T4CC 2	01014	07/01/06	00:36		<0.130			3360			

4TH QUARTER FY 1986 TASK 4 GC/MS CONFIRMATION DATA

FIELD GROUP NUMBERS T4CC2, T4WC2, AND OPG3C ARE GC/MS RESULTS

SAMPLE LIST T4C3

STORET CODE:	FLD. GRP.	#	SAMPLE ID	DATE	TIME	81596 R8 HIBK UG/L	34038 H8 BENZENE UG/L	34018 H8 TOLUENE UG/L	34371 H8 ETHYLBENZ UG/L	90553 H8 H-XYL UG/L	90554 H8 OEP-XYL UG/L	34423 Y8 METHYLCL UG/L	34501 Y8 LIDCE UG/L	34496 Y8 HIDCE UG/L	34546 Y8 TIDCE UG/L	32106 Y8 CHCL3 UG/L	34531 Y8 I2OCL UG/L	34506 Y8 I11TCE UG/L	32102 Y8 CCL4 UG/L
T4C2	4		01021	09/10/86	14:22	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.28	<1.28	<1.40	<0.610	<1.70	<2.40
T4C2	1		01021	09/10/86	07:00	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4C2	6		01023	09/10/86	11:09	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<2.00	<1.40	<0.610	<1.70	<2.40
T4C2	2		01023	09/10/86	11:09	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4C2	16		02420	09/17/86	11:16	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.50	<1.20	<31.9	<0.610	<1.70	<2.40
T4C2	4		02020	09/17/86	11:16	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.02	<1.20	<36.0	<0.610	<1.00	<2.00
T4C2	19		02034	09/05/86	13:57	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<4.29	<1.20	<13.3	<0.610	<1.70	<2.40
T4C2	5		02034	09/05/86	13:57	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<4.61	<2.00	<14.6	<1.00	<1.00	<2.00
T4C2	20		02035	09/05/86	13:59	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<6.74	<1.20	<162	<0.610	<1.70	<13.5
T4C2	6		02035	09/05/86	13:59	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<10.0	<2.00	<166	<1.00	<1.00	<16.7
T4C2	28		02059	09/03/86	10:24	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.28	<1.20	<14.1	<0.610	<1.70	<2.40
T4C2	7		02059	09/03/86	10:24	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<9.09	<1.00	<1.00	<2.00
T4C2	29		02060	09/03/86	00:05	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.28	<1.20	<1.40	<0.610	<1.70	<2.40
T4C2	8		02060	09/03/86	00:05	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4C2	31		02095	09/23/86	12:31	<12.9	<22.0	<6.40	<2.85	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1420	<0.610	<1.70	<2.40
T4C2	9		02095	09/23/86	12:31	<6.22	<23.7	<1.00	<1.00	<1.00	<2.25	<5.00	<1.10	<2.00	<2.00	<3060	<1.00	<1.00	<2.00
T4C2	33		02125	09/25/86	15:24	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.71	<0.610	<1.70	<2.40
T4C2	10		02125	09/25/86	15:24	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<2.24	<0.610	<1.00	<2.00
T4C2	37		02179	09/02/86	09:57	<12.9	<32.8	<460	<1.28	<1.35	<2.47	<128	<1.10	<1.20	<1.20	<26900	<0.610	<1.70	<2.40
T4C2	12		023179	09/02/86	09:57	<2.00	<31.5	<1.00	<1.00	<1.00	<2.05	<150	<1.10	<3.35	<2.00	<16600	<1.00	<1.00	<2.00
T4C2	39		023182	09/04/86	10:12	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<0.610	<1.70	<2.40
T4C2	14		023182	09/04/86	10:12	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4C2	40		023183	09/04/86	14:07	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<0.610	<1.70	<2.40
T4C2	15		023183	09/04/86	14:07	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4C2	50		02178	09/22/86	14:50	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	<124	<0.610	<1.70	<2.66
T4C2	51		02178	09/22/86	14:50	<2.00	<1.14	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<163	<1.00	<1.00	<2.73
T4C2	19		02185	09/23/86	00:50	<2.00	<1.10	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.40	<0.610	<1.70	<2.40
T4C2	57		025016	09/05/86	11:06	<12.9	<15.4	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<0.610	<1.70	<2.40
T4C2	20		025016	09/05/86	11:06	<2.00	<5.62	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4C2	60		026011	09/19/86	00:54	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<0.610	<1.70	<2.40
T4C2	21		026011	09/19/86	00:54	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4C2	61		026015	09/22/86	09:10	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<0.610	<1.70	<2.40
T4C2	22		026015	09/22/86	09:10	<2.00	<1.10	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4C2	62		026017	09/22/86	10:53	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<0.610	<1.70	<2.40
T4C2	23		026017	09/22/86	10:53	<2.00	<1.10	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4C2	63		026020	09/23/86	00:45	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<0.610	<1.70	<2.40
T4C2	24		026020	09/23/86	00:45	<2.00	<1.10	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4C2	65		026041	09/23/86	07:10	<12.9	<48.4	<729	<2.22	<1.35	<2.59	<100	<22.0	<24.0	<24.0	<28.0	<19.9	<34.0	<48.0
T4C2	25		026041	09/23/86	07:10	<25.1	<27.5	<25.0	<5.00	<1.35	<2.47	<25.0	<1.10	<10.0	<10.0	<5.00	<25.0	<25.0	<10.0
T4C2	72		026127	09/29/86	10:20	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<0.610	<1.70	<2.40
T4C2	26		026127	09/29/86	10:20	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4C2	74		026133	09/19/86	12:07	<323	<562	<195	<8.41	<8.52	<55.0	<25.0	<1.10	<6.00	<600	<40000	<61.0	<170	<230
T4C2	27		026133	09/19/86	12:07	<200	<536	<199	<100	<100	<200	<814	<1.10	<200	<200	<6000	<100	<100	<200
T4C2	76		026142	09/24/86	07:40	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<0.610	<1.70	<2.40
T4C2	28		026142	09/24/86	07:40	<2.00	<1.10	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4C2	122		027016	09/26/86	00:22	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<0.610	<1.70	<2.40
T4C2	29		027016	09/26/86	00:22	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00
T4C2	81		027053	09/19/86	00:52	<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	<1.40	<0.610	<1.70	<2.40
T4C2	30		027053	09/19/86	00:52	<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<1.00	<1.00	<2.00

SAMPLE LIST T4C3

STORET CODE:
METHOD CODE:
PARAMETER:

UNITS:

FLD.CHP.	#	SAMPLE ID	DATE	TIME
T4C2	4	01021	09/18/86	14:22
T4C2	1	01021	09/18/86	07:00
T4C2	6	01023	09/18/86	11:09
T4C2	2	01023	09/18/86	11:09
T4C2	16	02020	09/17/86	11:16
T4C2	4	02020	09/17/86	11:16
T4C2	19	02034	09/05/86	13:57
T4C2	5	02034	09/05/86	13:57
T4C2	20	02035	09/05/86	15:00
T4C2	6	02035	09/05/86	15:00
T4C2	28	22059	09/03/86	10:24
T4C2	7	22059	09/03/86	10:24
T4C2	29	22060	09/03/86	08:05
T4C2	8	22060	09/03/86	08:05
T4C2	31	23095	09/03/86	12:31
T4C2	9	23095	09/03/86	12:31
T4C2	33	23125	09/25/86	15:24
T4C2	10	23125	09/25/86	15:24
T4C2	37	23179	09/02/86	09:57
T4C2	12	23179	09/02/86	09:57
T4C2	39	23182	09/04/86	10:12
T4C2	14	23182	09/04/86	10:12
T4C2	40	23183	09/04/86	14:07
T4C2	15	23183	09/04/86	14:07
T4C2	50	24178	09/22/86	14:50
T4C2	18	24178	09/22/86	14:50
T4C2	51	24185	09/23/86	08:50
T4C2	19	24185	09/23/86	08:50
T4C2	57	25016	09/05/86	11:06
T4C2	20	25016	09/05/86	11:06
T4C2	60	26011	09/19/86	08:54
T4C2	21	26011	09/19/86	08:54
T4C2	61	26015	09/22/86	09:10
T4C2	22	26015	09/22/86	09:10
T4C2	62	26017	09/22/86	10:53
T4C2	23	26017	09/22/86	10:53
T4C2	63	26020	09/23/86	08:45
T4C2	24	26020	09/23/86	08:45
T4C2	65	26041	09/23/86	07:10
T4C2	25	26041	09/23/86	07:10
T4C2	72	26127	09/29/86	10:20
T4C2	26	26127	09/29/86	10:20
T4C2	74	26133	09/19/86	12:07
T4C2	27	26133	09/19/86	12:07
T4C2	76	26142	09/24/86	07:48
T4C2	28	26142	09/24/86	07:48
T4C2	122	27016	09/26/86	08:22
T4C2	29	27016	09/26/86	08:22
T4C2	81	27053	09/19/86	08:52
T4C2	30	27053	09/19/86	08:52

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SAMPLE LIST T4C3

STONEY CODE:
METHOD CODE:
PARAMETER:
UNITS:

F.L.D. GRP.	#	SAMPLE ID	DATE	TIME
T4M2	19	33024	09/03/06	10:50
T4M2	1	33024	09/03/06	10:50
T4M2	21	33026	06/20/06	13:53
T4M2	2	33026	06/20/06	13:53
T4M2	23	33030	09/04/06	09:40
T4M2	3	33030	09/04/06	09:40
T4M2	25	13034	09/04/06	11:37
T4M2	4	13034	09/04/06	11:37
T4C2	97	35037	09/05/06	12:30
T4C2	32	35037	09/05/06	12:30
T4C2	90	35038	09/05/06	13:31
T4C2	33	35038	09/05/06	13:31
T4C2	101	35058	09/08/06	10:10
T4C2	34	35058	09/08/06	10:10
T4C2	105	35063	09/15/06	11:37
T4C2	35	35063	09/15/06	11:37
T4C2	106	35065	09/08/06	11:17
T4C2	36	35065	09/08/06	11:17
T4C2	110	36065	09/26/06	11:44
T4C2	37	36065	09/26/06	11:41
T4C2	114	36082	09/26/06	10:45
T4C2	39	36082	09/26/06	10:45
T4C2	120	36121	09/26/06	13:40
T4C2	38	36121	09/26/06	13:40
OP63	1	37305	08/26/06	14:56
OP63	6	37345	08/26/06	14:56
OP63	2	37313	08/26/06	10:15
OP63	7	37328	09/22/06	12:06
OP63	3	37328	09/22/06	12:06
OP63	25	37347	08/25/06	10:13
OP63	5	37347	08/25/06	00:00
OP63	27	37349	09/11/06	07:53
OP63	6	37349	09/11/06	07:53
OP63	4	37353	09/12/06	07:30
OP63	34	37356	09/08/06	10:43
OP63	7	37356	09/08/06	10:43
OP63	35	37357	09/11/06	10:47
OP63	8	37357	09/11/06	10:47
T4M2	4	04014	08/26/06	00:04
T4M2	5	04014	08/26/06	00:04
T4M2	6	04021	08/25/06	10:10
T4M2	6	04021	08/25/06	10:10
T4M2	8	04027	08/26/06	11:59
T4M2	7	04027	08/26/06	11:59

[illegible]

SAMPLE LIST TAC3

STORET CODE:	FLD. GRP.	SAMPLE ID	DATE	TIME	34511	34475	34381
METHOD CODE:					Y0	Y0	Y0
PARAMETER:					112TCE	TCEEE	CLGMS
UNITS:					UG/L	UG/L	UG/L
TAC2 19	33024	09/03/86	10:50		CL.00	CL.30	CL.500
TAC2 1	33024	09/03/86	10:50		CL.00	CL.00	CL.00
TAC2 21	33026	09/28/86	13:53		CL.00	CL.30	CL.500
TAC2 2	33026	09/28/86	13:53		CL.00	CL.00	CL.00
TAC2 23	33030	09/04/86	09:40		CL.00	CL.30	CL.500
TAC2 3	33030	09/04/86	09:40		CL.00	CL.00	CL.00
TAC2 25	33034	09/04/86	11:37		CL.00	CL.30	CL.500
TAC2 4	33034	09/04/86	11:37		CL.00	CL.00	CL.00
TAC2 97	35037	09/05/86	12:30		CL.00	CL.30	CL.500
TAC2 32	35037	09/05/86	12:30		CL.00	CL.00	CL.00
TAC2 90	35038	09/05/86	13:31		CL.00	CL.30	CL.500
TAC2 33	35038	09/05/86	13:31		CL.00	CL.00	CL.00
TAC2 101	35050	09/08/86	10:18		CL.00	CL.30	CL.500
TAC2 34	35050	09/08/86	10:18		CL.00	CL.00	CL.00
TAC2 105	35063	09/15/86	11:37		CL.00	CL.30	CL.500
TAC2 35	35063	09/15/86	11:37		CL.00	CL.00	CL.00
TAC2 106	35065	09/08/86	11:17		CL.00	11.0	5.77
TAC2 36	35065	09/08/86	11:17		CL.00	10.7	4.44
TAC2 110	36065	09/26/86	11:44		CL.00	CL.30	1.78
TAC2 37	36065	09/26/86	11:44		CL.00	CL.00	2.87
TAC2 114	36082	09/26/86	10:45		CL.00	1.55	CL.500
TAC2 39	36082	09/26/86	10:45		CL.00	1.09	2.16
TAC2 120	36121	09/26/86	13:40		CL.00	CL.30	CL.500
TAC2 30	36121	09/26/86	13:40		CL.00	CL.00	CL.00
OP63 1	37305	09/26/86	14:56		CL.00	CL.30	CL.500
OP63 6	37305	09/26/86	14:56		CL.00	CL.00	CL.00
OP63 2	37313	09/26/86	10:15		CL.00	CL.30	CL.500
OP63 7	37320	09/22/86	12:06		CL.00	CL.00	CL.00
OP63 25	37347	09/25/86	10:13		CL.00	CL.30	CL.500
OP63 5	37347	09/25/86	00:00		CL.00	CL.00	CL.00
OP63 27	37349	09/11/86	07:53		CL.00	CL.30	CL.500
OP63 6	37349	09/11/86	07:53		NA	NA	NA
OP63 31	37353	09/12/86	07:30		CL.00	CL.30	CL.500
OP63 4	37353	09/12/86	07:30		NA	NA	NA
OP63 34	37356	09/08/86	10:43		CL.00	CL.30	CL.500
OP63 7	37356	09/08/86	10:43		CL.00	CL.00	CL.00
OP63 35	37357	09/11/86	10:47		CL.00	2.24	CL.500
OP63 8	37357	09/11/86	10:47		NA	NA	NA
TAC2 4	04014	09/26/86	00:04		CL.00	CL.30	CL.500
TAC2 5	04014	09/26/86	00:04		CL.00	CL.00	CL.00
TAC2 6	04021	09/25/86	10:18		CL.00	CL.30	CL.500
TAC2 6	04021	09/25/86	10:18		CL.00	CL.00	CL.00
TAC2 8	04027	09/26/86	11:59		CL.00	CL.30	CL.500
TAC2 7	04027	09/26/86	11:59		CL.00	CL.00	CL.00

TASK 44 GC/MS CONFIRMATION DATA

FIELD GROUP NUMBER T44CM53 IS GC/MS RESULTS

SAMPLE LIST TAPPAUL

TORET CODE:	LD.CRP.	#	SAMPLE ID	DATE	TIME	81596	34030	34010	34371	90553	98554	34423	34501	34496	34546	32106	34531	34506	32102
METHOD CODE:						R8	HB	HB	HB	HB	HB	Y8	Y8	Y8	Y8	Y8	Y8	Y8	Y8
PARAMETER:						HBK	BENZENE	TOLUENE	ETHYLBENZ	M-XYL	OP-XYL	METHYLCL	HDCE	HDCE	HDCE	CMCL3	HDCE	HDCE	CMCL4
UNITS:						UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
T44GHS3	1	81000	05/05/87	10:13		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	6.57	<1.00	<1.00	<2.00
T44IS3	1	81008	05/05/87	10:13		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	4.29	<0.610	<1.70	<2.40
T44R3	1	81008	06/02/87	08:51		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	6.93	<0.610	<1.70	<2.40
T44CM3	1	82008	05/05/87	13:19		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.40	<0.610	<1.70	<2.40
T44GHS3	2	82008	05/05/87	13:19		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	<1.00	<0.610	<1.70	<2.40
T44R3	3	82008	06/02/87	08:58		<2.00	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<2.00	<1.00	<0.610	<1.70	<2.40
T44GHS3	3	84009	05/06/87	07:36		<2.00	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<2.00	<1.00	<0.610	<1.70	<2.40
T44R3	9	84009	05/06/87	07:36		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	<1.40	<0.610	<1.70	<2.40
T44GHS3	4	89002	05/05/87	14:16		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<5.00	<1.10	<2.00	<2.00	<1.00	<0.610	<1.70	<2.40
T44R3	12	89002	06/03/87	09:55		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	<1.40	<0.610	<1.70	<2.40
T44GHS3	106	89002	05/05/87	14:16		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	<1.40	<0.610	<1.70	<2.40
T44GHS3	5	22051	05/13/87	07:52		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	1.66	<1.00	<1.00	<1.50
T4425-3	5	23004	05/13/87	10:08		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	7330	<0.610	<1.70	<2.40
T44GHS3	6	23004	05/13/87	10:08		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T4425-3	6	23029	05/13/87	11:44		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	7	23029	05/13/87	11:44		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T4425-3	11	23109	05/14/87	08:36		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	8	23109	05/14/87	08:36		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	9	23193	05/14/87	08:28		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44IS3	9	23193	05/14/87	08:28		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T4425-3	15	24092	05/18/87	08:42		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	10	24092	05/18/87	08:42		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T4425-3	16	24106	05/18/87	13:35		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	11	24106	05/18/87	13:35		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T4425-3	18	24111	05/14/87	13:55		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	12	24111	05/14/87	13:55		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T4425-3	19	24113	05/18/87	10:46		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	13	24113	05/18/87	10:46		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T4425-3	20	24120	05/19/87	13:43		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	14	24120	05/19/87	13:43		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T4425-3	22	24127	05/12/87	14:33		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	15	24127	05/12/87	14:33		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T4425-3	24	27049	05/12/87	15:12		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	17	27049	05/12/87	15:12		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T44CM3	64	27055	05/08/87	09:15		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	19	27055	05/08/87	09:15		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T4425-3	25	27074	05/13/87	09:47		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	20	27074	05/13/87	09:47		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	21	33002	05/05/87	08:21		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T44R3	17	33002	06/02/87	14:41		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	108	33002	05/05/87	08:21		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	22	33063	05/06/87	14:24		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T44R3	32	33063	05/06/87	14:24		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	23	35016	05/06/87	15:16		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T44IS3	23	35016	05/06/87	15:16		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	25	35066	05/12/87	07:47		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	26	36004	05/12/87	10:20		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T44IS3	30	36004	05/12/87	10:20		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50
T44GHS3	27	36090	05/06/87	13:51		<2.00	<1.00	<1.00	<1.00	<1.00	<2.00	<4.00	<1.10	<2.00	<1.20	>160	<1.00	<1.00	<1.50
T44IS3	31	36090	05/06/87	13:51		<12.9	<1.34	<1.21	<1.28	<1.35	<2.47	<5.00	<1.10	<1.20	<1.20	>160	<1.00	<1.00	<1.50

SAMPLE LIST T4PAUL

STORE CODE:

METHOD CODE:

PARAMETER:

UNITS:

FLD. GRP.	#	SAMPLE ID	DATE	TIME	34511 Y8	34475 Y8	34301 Y8
					1121CE UG/L	TCLEE UG/L	CLC6HS UG/L
T44GRS3	1	01000	05/05/87	10:13	<1.00	<1.00	<2.00
T441S3	1	01000	05/05/87	10:13	<1.00	<1.30	<0.500
T44HR3	1	01000	06/02/87	08:51	<1.00	<1.30	<0.500
T44CM3	7	02000	05/05/87	13:19	<1.00	<1.30	<0.500
T44GRS3	2	02000	05/05/87	13:19	<1.00	<1.00	<2.00
T44RR3	3	02000	06/02/87	08:58	<1.00	<1.30	<0.500
T44GRS3	3	04000	05/06/87	07:36	<1.00	<1.00	<2.00
T44WR3	9	04000	05/06/87	07:36	<1.00	<1.30	<0.500
T44GRS3	4	09002	05/05/87	14:16	<1.00	1.65	<2.00
T44RR3	12	09002	06/03/87	09:55	<1.00	1.59	<0.500
T44WR3	106	09002	05/05/87	14:16	<1.00	1.93	<0.500
T44GRS3	5	22051	05/13/87	07:52	<1.00	<1.00	<2.10
T4425-3	5	23004	05/13/87	10:08	<1.00	<1.30	<50.0
T44GRS3	6	23004	05/13/87	10:08	<1.00	36.9	<2.10
T4425-3	6	23029	05/13/87	11:44	NA	NA	NA
T44GRS3	7	23029	05/13/87	11:44	NA	NA	NA
T4425-3	11	23109	05/14/87	08:36	<1.00	<1.30	<0.500
T44GRS3	8	23109	05/14/87	08:36	<1.00	<1.00	<2.10
T44GRS3	9	23193	05/14/87	08:28	<1.00	<1.00	<2.10
T441S3	9	23193	05/14/87	08:28	<1.00	<1.30	<0.500
T4425-3	15	24092	05/18/87	08:42	<1.00	<1.00	<0.500
T44GRS3	10	24092	05/18/87	08:42	<1.00	<1.00	<2.10
T4425-3	16	24106	05/18/87	13:35	<1.00	<1.30	<0.500
T44GRS3	11	24106	05/18/87	13:35	<1.00	<1.00	<2.10
T4425-3	18	24111	05/14/87	13:55	<1.00	<1.30	<0.500
T44GRS3	12	24111	05/14/87	13:55	<1.00	<1.00	<2.10
T4425-3	19	24113	05/18/87	10:46	<1.00	<1.30	<0.500
T44GRS3	13	24113	05/18/87	10:46	<1.00	<1.00	<2.10
T4425-3	20	24120	05/19/87	13:43	<1.00	<1.30	<0.500
T44GRS3	14	24120	05/19/87	13:43	<1.00	<1.00	<2.10
T4425-3	22	24127	05/12/87	14:33	<1.00	70.1	<0.500
T44GRS3	15	24127	05/12/87	14:43	<1.00	84.6	<2.10
T4425-3	24	27049	05/12/87	15:12	<1.00	<1.30	<0.500
T44GRS3	17	27049	05/12/87	15:12	<1.00	<1.00	<2.10
T44CM3	64	27055	05/06/87	09:15	<1.00	<1.30	<0.500
T44GRS3	19	27055	05/06/87	09:15	<1.00	<1.00	<2.10
T4425-3	25	27074	05/13/87	09:47	<1.00	<1.30	<0.500
T44GRS3	20	27074	05/13/87	09:47	NA	NA	NA
T44GRS3	21	33002	05/05/87	00:21	<1.00	<1.00	<2.00
T44RR3	17	33002	06/02/87	14:41	<1.00	<1.30	32.7
T44WR3	100	33002	05/05/87	00:21	<1.00	<1.30	<0.500
T44GRS3	22	33063	05/06/87	14:24	<1.00	<1.00	<2.00
T44WR3	32	33063	05/06/87	14:24	<1.00	<1.30	<0.500
T44GRS3	23	35016	05/06/87	15:16	<1.00	<1.00	6.00
T441S3	23	35016	05/06/87	15:16	<1.00	<1.30	<2.10
T44GRS3	25	35066	05/12/87	07:47	<1.00	<1.00	19.5
T44GRS3	26	36084	05/12/87	10:20	21.0	7.51	5.30
T441S3	30	36084	05/12/87	10:20	36.8	8.76	4.71
T44GRS3	27	36090	05/06/87	13:51	2.43	18.9	39.5
T441S3	31	36090	05/06/87	13:51	4.47	23.6	55.9

SAMPLE LIST TAPPAUL

STORE CODE:

METHOD CODE:

PARAMETER:

UNITS:

STORE CODE	METHOD CODE	PARAMETER	UNITS	LD.CMP.	SAMPLE ID	DATE	TIME
T44GMS3	92	36110	05/11/07	15:42			
T44GMS3	28	36110	05/11/07	15:42			
T44GMS3	97	36139	05/11/07	14:39			
T44GMS3	29	36139	05/11/07	14:39			
T44GMS3	41	37309	07/06/07	00:56			
T44GMS3	4	37309	06/16/07	00:45			
T44GMS3	42	37332	07/06/07	00:05			
T44GMS3	9	37332	06/18/07	00:29			
T44GMS3	43	37333	07/09/07	07:20			
T44GMS3	10	37333	06/18/07	00:39			
T44GMS3	44	37344	07/06/07	11:15			
T44GMS3	45	37359	07/06/07	00:45			
T44GMS3	33	37359	06/17/07	10:25			
T44GMS3	46	C111	07/06/07	00:55			

99133	99133	99133	99133	77905	77905	77905	77905
DBCP	DBCP	DBCP	DBCP	DBCP	DBCP	DBCP	DBCP
UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
<0.130	<15	<3.8	<9.31	<4.7	<1.1	<1.1	<1.1
<0.130	<15	<3.8	<9.31	<4.7	<1.1	<1.1	<1.1
0.176	<15	<3.8	475	<4.7	<1.1	<1.1	<1.1
<0.130	<15	<3.8	<9.31	<4.7	<1.1	<1.1	<1.1
<0.130	<15	12	<9.31	<4.7	43	43	43
<0.130	<15	<3.8	<9.31	<4.7	<1.1	<1.1	<1.1
<0.130	<15	<3.8	<9.31	<4.7	<1.1	<1.1	<1.1

SAMPLE LIST T4PAUL

STORET CODE:	STRET CODE:	DATE	TIME	UNIT:	Y8	Y8	Y8
T44CM3 92	36110	05/11/87	15:42	UG/L	1127CE	TCLEE	CLC6MS
T44CMS 28	36110	05/11/87	15:42	UG/L	1127CE	TCLEE	CLC6MS
T44CM3 97	36139	05/11/87	14:39	UG/L	1127CE	TCLEE	CLC6MS
T44CMS 29	36139	05/11/87	14:39	UG/L	1127CE	TCLEE	CLC6MS
T44CMS 41	37309	07/08/87	08:56	UG/L	1127CE	TCLEE	CLC6MS
T44OP3 4	37309	06/16/87	09:45	UG/L	1127CE	TCLEE	CLC6MS
T44CMS 42	37332	07/08/87	08:05	UG/L	1127CE	TCLEE	CLC6MS
T44OP3 5	37332	06/18/87	08:29	UG/L	1127CE	TCLEE	CLC6MS
T44CMS 43	37333	07/09/87	07:20	UG/L	1127CE	TCLEE	CLC6MS
T44OP3 10	37333	06/18/87	09:39	UG/L	1127CE	TCLEE	CLC6MS
T44CMS 44	37344	07/08/87	11:15	UG/L	1127CE	TCLEE	CLC6MS
T44CMS 45	37359	07/08/87	09:45	UG/L	1127CE	TCLEE	CLC6MS
T44OP3 33	37359	06/17/87	10:25	UG/L	1127CE	TCLEE	CLC6MS
T44CMS 46	C111	07/08/87	09:55	UG/L	1127CE	TCLEE	CLC6MS

GC/MS DATA FOR TENTATIVELY IDENTIFIED COMPOUNDS

[illegible][illegible]

STRENGTHEN YOUR LEGS WITH SQUATS

1,1-butadiethylmethane	
1,2,3,4,5,7,7-heptachlorooctane	
1,2-dichloroethane	13
1,2-dichloroethene	33.4
1,2-dichloropropene	
1,3-cyclopentadiene	
1,3,5-tetrazoline	9.13
1,3,4,4-tetralone	
1,3-dichloro-2-thione	
1,4-cyclooctadiene	240
1,4-dioxan	
1,4-dithiane	
1-propanone	13.4
1-(1-oxo-2-ethylpropan-2-yl)ethane	
2-propanone	49
2,2,2-trichloroethanol	
2,3-dichloro-2-methylbutyl alcohol	
2,4-dinitroazobenzene	
2,5,10,14-tetramethylpentadecane	11.4
2,5,9,14-tetramethylpentadecane	36
2,5,10,14-tetramethylpentadecane	
2,5,9,14-tetramethylpentadecane	
2,5,10,14-tetramethylpentadecane	52.1
2-cyclohexen-1-one	

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100

General groups of compounds

Substance	$\bar{\nu}$	$\bar{\nu}$	$\bar{\nu}$	$\bar{\nu}$	$\bar{\nu}$
alkene	28.1	12.1	29.1	12.1	10.8
615					35.2
aromatic hydrocarbon					
alkane					
chlorinated compound					
649	27.3	6.35		1.01	5.45
sulfur compound					35.5
654	19.6	6.51		3.57	6.55
655	33.5	12		15.5	11.2
alkene or alcohol					57.8
632		6.34		6.65	5.63
alkane or alkene					13.9

Analytical Results for Tentatively Identified Compounds by GC/MS Analysis

Non-target analytes	01008	01012	01014	01020	02008	02019	02020	02030	02031	02035	02037	02038	02039	03005	03523	04007	04008	04021	04023	04029	04033	06005	07001
603		11.5		22.9						5.6	6.19	56.2											
611		12.6										19.8											
651		7.83										13.6						7.45					
636																							
bicyclo compound																							
639																							
amide																							
640												6.63											
chlorohydrocarbon																							
663																							
643																							
bicyclo or tricyclo compound																							
alicyclic compound																							
631																							
alcohol or unsaturated fatty acid												6.81											
alcohol																							
663																							
647																							
664																							
alkyne																							
acid or alcohol																							
637																							
646																							
638																							
aliphatic cyclic compound																							
phthalate																							

36

Analytical Results for Tentatively Identified Compounds by GC/MS Analysis

Non-target analytes	9962	65665	11002	22021	22024	22051	22059	22066	23064	23029	23055	23-101	23-192	23195	23192	23177	23179	23175	23182	23180	23105	23104	23199	23092	23106
ANALYTES WITH 10 OR MORE OCCURRENCES																									
1,1,2,2-tetrafluoroethane							39.1					16.7				13.6	22.2	25.9			16.2	16.4	7.31		
1,1,2-trichloroethane							26.6					10.7				7.39	6.52	17.4			6.38				
2,6,10,14-tetramethylpentadecane													15.3				14.7				12.7	23.7			
2,6,10-trimethylpentadecane				131	530											73	65.7	35.5				32.5	74		
diis(2-ethylhexyl) phthalate						19.3																			
caprolactam	935						451	28.6				263	59.3				7.06	1790			10.6		32.9		13.6
chloroethane																									
cyclopentane				14.6	26.9											65.2	40.5					16.2			
hexanoic acid																	63.3								
n-octane				129	358											33.1	55.4	13.7					32	59.9	
n-hexacosane				38.5	103											12	19.5	7.9							
n-heptadecane				332	1750							50.2	69.3			157	259	133			11.7	11.7	16.6		
n-octadecane				342	1600							23.2	26.3			66.1	154	85.8			36.3	137	267		
n-nonacosane				247	745							51.3	25			78.5	112	62.7							
n-pentadecane				114	504								1.54			44.4	47.5				21.1	72.4	143		
n-tetradecane				36.2	126											10.6	11.3								
octadecane				362	1620							55.2	36			134	257								
octadecanoic acid																									
tetrachloroethene										11.2		20.4													
THF (tetrahydrofuran)																	17.7	46.2							

ANALYTES WITH LESS THAN 10 OCCURRENCES

1,1-hinimethylthioethane																									
1,2,3,4,5,7,7-heptachlorononane																									
1,2-dichloroethane																									
1,2-dichloropropane																									
1,3-cyclopentadiene																									
1,3,6-tetrahydro-2H-pyran																									
1,3-dithiolane-2-thione																									
1,4-cyclohexadiene																									
1,4-dithiane																									
1,4-dithiane																									
1-propanol																									
1-(4-hydroxy-3-oxocyclopentyl)ethane																									
2-propanol																									
2,2,7-trichloroethanol																									
2,3-dichloro-2-methylpentyl alcohol																									
2,6-hexanedithione																									
2,6,10,14-tetraethylhexadecane																									
2,6,10,14-tetraethylhexadecane																									
2,6,10,14-tetraethylhexadecane																									
2,6,10,14-tetraethylpentadecane																									
2-cyclopentyl-1-one																									

111

24.7

17.5

13.5

9.7

17.7 46.2

69492	69495	11642	22821	22824	22851	22859	22640	23004	23029	23095	23-191	23-192	23125	23142	23177	23179	23153	23182	23183	23165	23188	24002	24166
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Analytical Results for Testatively Identified Compounds by GC/MS Analysis

[illegible]

[illegible][illegible]

General groups of crocodiles

[illegible]

Non-target analytes	21111	21113	21127	21176	21179	21415	21423	21911	21915	21917	21918	21941	21946	21973	21983	21984	21985	21986	21972	21977	21978	21979	21980	21981	21982	21983	21984	21985	21986	21987	21988	21989	21990	21991	21992	21993	21994	21995	21996	21997	21998	21999	22000	22001	22002	22003	22004	22005	22006	22007	22008	22009	22010	22011	22012	22013	22014	22015	22016	22017	22018	22019	22020	22021	22022	22023	22024	22025	22026	22027	22028	22029	22030	22031	22032	22033	22034	22035	22036	22037	22038	22039	22040	22041	22042	22043	22044	22045	22046	22047	22048	22049	22050	22051	22052	22053	22054	22055	22056	22057	22058	22059	22060	22061	22062	22063	22064	22065	22066	22067	22068	22069	22070	22071	22072	22073	22074	22075	22076	22077	22078	22079	22080	22081	22082	22083	22084	22085	22086	22087	22088	22089	22090	22091	22092	22093	22094	22095	22096	22097	22098	22099	22100	22101	22102	22103	22104	22105	22106	22107	22108	22109	22110	22111	22112	22113	22114	22115	22116	22117	22118	22119	22120	22121	22122	22123	22124	22125	22126	22127	22128	22129	22130	22131	22132	22133	22134	22135	22136	22137	22138	22139	22140	22141	22142	22143	22144	22145	22146	22147	22148	22149	22150	22151	22152	22153	22154	22155	22156	22157	22158	22159	22160	22161	22162	22163	22164	22165	22166	22167	22168	22169	22170	22171	22172	22173	22174	22175	22176	22177	22178	22179	22180	22181	22182	22183	22184	22185	22186	22187	22188	22189	22190	22191	22192	22193	22194	22195	22196	22197	22198	22199	22200	22201	22202	22203	22204	22205	22206	22207	22208	22209	22210	22211	22212	22213	22214	22215	22216	22217	22218	22219	22220	22221	22222	22223	22224	22225	22226	22227	22228	22229	22230	22231	22232	22233	22234	22235	22236	22237	22238	22239	22240	22241	22242	22243	22244	22245	22246	22247	22248	22249	22250	22251	22252	22253	22254	22255	22256	22257	22258	22259	22260	22261	22262	22263	22264	22265	22266	22267	22268	22269	22270	22271	22272	22273	22274	22275	22276	22277	22278	22279	22280	22281	22282	22283	22284	22285	22286	22287	22288	22289	22290	22291	22292	22293	22294	22295	22296	22297	22298	22299	22300	22301	22302	22303	22304	22305	22306	22307	22308	22309	22310	22311	22312	22313	22314	22315	22316	22317	22318	22319	22320	22321	22322	22323	22324	22325	22326	22327	22
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[illegible][illegible]

Non-target analytes

[illegible]

[illegible][illegible]

	15					
alkene						
515		6.25	14.6		26	54.2
aromatic hydrocarbon						
alkane						
chlorinated compound						
64b					10.2	51.5
alkene or alkane						
549						
alkene or alkane						
550					2.71	28.6
alkene or alkane					5.23	62.5
555						
alkene or alkane						
557					11.2	55.5
alkene or alkane						
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[illegible]

100

Age-Target analysis

RECORDED IN 11 JUL 1961

[illegible]

PROOF: IT'S THE WAY IT WORKS

1,1,1-butylthioethane					
1,2,2,4,5,7,7-heptachloroheptane	10.8				35.5
1,1,2-dichloroethane					
1,1,2-dichloroethene					
1,2-dichloropropane					
1,1,3-cycloheptatriene					
1,1,6-dimethylolane					
1,1,3-dithiolane	31.1	29.4	25.3	11.3	11.9
1,1-dithiolane-2-thione					
1,4-cyclooctatriene					
1,4-dithias	133				9.51
1,4-dithiane					
1-propanone					
1-(1,4-hydroxy-3-methylpentyl)ethanone					
1-propanone					
2,2,2-trichloroethanol					35.3
2,2-dichloro-2-methylbutyl alcohol					
2,4-indazolidinedione					
2,6,10,14-tetraethylbenzocane					
2,6,10,14-tetraethylpentadecane					
2,6,10,14-tetraethylpentadecane					
2,6,10,14-tetraethylpentadecane					
2,6,10,14-tetraethylpentadecane					
2-cyclohexen-1-one	35.2	219			0.53

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[illegible]

[illegible][illegible]

	Harvest analysis																				
	I					I															
26142	27816	27448	27049	27653	27855	27662	28625	31026	33850	35612	35813	35316	35817	35818	35652	35658	35665	35665	35665	35676	35682

[illegible][illegible]

Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																					
Population	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000

[illegible]

16444 16456 16468 16480 16492 16504 16516 16528 16540 16552 16564 16576 16588 16600 16612 16624 16636 16648 16660 16672 16684 16696 16708 16720 16732 16744 16756 16768 16780 16792 16804 16816 16828 16840 16852 16864 16876 16888 16900 16912 16924 16936 16948 16960 16972 16984 16996 17008 17020 17032 17044 17056 17068 17080 17092 17104 17116 17128 17140 17152 17164 17176 17188 17200 17212 17224 17236 17248 17260 17272 17284 17296 17308 17320 17332 17344 17356 17368 17380 17392 17404 17416 17428 17440 17452 17464 17476 17488 17500 17512 17524 17536 17548 17560 17572 17584 17596 17608 17620 17632 17644 17656 17668 17680 17692 17704 17716 17728 17740 17752 17764 17776 17788 17800 17812 17824 17836 17848 17860 17872 17884 17896 17908 17920 17932 17944 17956 17968 17980 17992 18004 18016 18028 18040 18052 18064 18076 18088 18100 18112 18124 18136 18148 18160 18172 18184 18196 18208 18220 18232 18244 18256 18268 18280 18292 18304 18316 18328 18340 18352 18364 18376 18388 18400 18412 18424 18436 18448 18460 18472 18484 18496 18508 18520 18532 18544 18556 18568 18580 18592 18604 18616 18628 18640 18652 18664 18676 18688 18700 18712 18724 18736 18748 18760 18772 18784 18796 18808 18820 18832 18844 18856 18868 18880 18892 18904 18916 18928 18940 18952 18964 18976 18988 19000 19012 19024 19036 19048 19060 19072 19084 19096 19108 19120 19132 19144 19156 19168 19180 19192 19204 19216 19228 19240 19252 19264 19276 19288 19300 19312 19324 19336 19348 19360 19372 19384 19396 19408 19420 19432 19444 19456 19468 19480 19492 19504 19516 19528 19540 19552 19564 19576 19588 19600 19612 19624 19636 19648 19660 19672 19684 19696 19708 19720 19732 19744 19756 19768 19780 19792 19804 19816 19828 19840 19852 19864 19876 19888 19900 19912 19924 19936 19948 19960 19972 19984 19996 20008 20020 20032 20044 20056 20068 20080 20092 20104 20116 20128 20140 20152 20164 20176 20188 20200 20212 20224 20236 20248 20260 20272 20284 20296 20308 20320 20332 20344 20356 20368 20380 20392 20404 20416 20428 20440 20452 20464 20476 20488 20500 20512 20524 20536 20548 20560 20572 20584 20596 20608 20620 20632 20644 20656 20668 20680 20692 20704 20716 20728 20740 20752 20764 20776 20788 20800 20812 20824 20836 20848 20860 20872 20884 20896 20908 20920 20932 20944 20956 20968 20980 20992 21004 21016 21028 21040 21052 21064 21076 21088 21100 21112 21124 21136 21148 21160 21172 21184 21196 21208 21220 21232 21244 21256 21268 21280 21292 21304 21316 21328 21340 21352 21364 21376 21388 21400 21412 21424 21436 21448 21460 21472 21484 21496 21508 21520 21532 21544 21556 21568 21580 21592 21604 21616 21628 21640 21652 21664 21676 21688 21700 21712 21724 21736 21748 21760 21772 21784 21796 21808 21820 21832 21844 21856 21868 21880 21892 21904 21916 21928 21940 21952 21964 21976 21988 22000 22012 22024 22036 22048 22060 22072 22084 22096 22108 22120 22132 22144 22156 22168 22180 22192 22204 22216 22228 22240 22252 22264 22276 22288 22300 22312 22324 22336 22348 22360 22372 22384 22396 22408 22420 22432 22444 22456 22468 22480 22492 22504 22516 22528 22540 22552 22564 22576 22588 22600 22612 22624 22636 22648 22660 22672 22684 22696 22708 22720 22732 22744 22756 22768 22780 22792 22804 22816 22828 22840 22852 22864 22876 22888 22900 22912 22924 22936 22948 22960 22972 22984 22996 23008 23020 23032 23044 23056 23068 23080 23092 23104 23116 23128 23140 23152 23164 23176 23188 23200 23212 23224 23236 23248 23260 23272 23284 23296 23308 23320 23332 23344 23356 23368 23380 23392 23404 23416 23428 23440 23452 23464 23476 23488 23500 23512 23524 23536 23548 23560 23572 23584 23596 23608 23620 23632 23644 23656 23668 23680 23692 23704 23716 23728 23740 23752 23764 23776 23788 23800 23812 23824 23836 23848 23860 23872 23884 23896 23908 23920 23932 23944 23956 23968 23980 23992 24004 24016 24028 24040 24052 24064 24076 24088 24100 24112 24124 24136 24148 24160 24172 24184 24196 24208 24220 24232 24244 24256 24268 24280 24292 24304 24316 24328 24340 24352 24364 24376 24388 24400 24412 24424 24436 24448 24460 24472 24484 24496 24508 24520 24532 24544 24556 24568 24580 24592 24604 24616 24

Compound	Yield (%)	mp (°C)	lit.
1,1,2,2-tetrachloroethane	6.42		
1,1,1,2-trichloroethane			
2,5,10,14-tetramethylbenzene	13.9		
2,6,10-trimethyl pentadecane	30.1		
benzyl-ethylbenzyl pthalate	13.6		
caprolactam	154	339	18.4
caprolactone	52.4	2.9	5.5

QUALITY WITH LOW COSTS

[illegible]

35081 35090 35112 35130 37205 37367 37500 37513 37520 37532 37544 37547 37553 37554 37556 37557 37559 382152

[illegible]

Analytical Results for Reactively Identified Compounds by GC/MS Analysis

[illegible]

[illegible]

General groups of compounds

	°C	°F	°R
allene			
635			
aliphatic hydrocarbon			
allene			
chlorinated compound	57.2	7.0	
649	15.2		
butyl or cumene	23.9	114	
658			
655			
alkene or alcohol			
632			
alkane or alkene			

TASK 4 GC/MS NONTARGET DATA 3RD AND 4TH QUARTERS FY1986

PARAMETERS	01012		TENTATIVE ID
UNITS	STORET #	T4CC	
	METHOD	1	
DATE	06/25/86		
TIME	12:50		
UNK055	91055	28.7	THF
UNK532	91532	7.41	1,1,2,2-TETRACHLOROETHANE
UNK591	91591	6.43	ALKANE
UNK594	91594	30.0	2,6,10,14-TETRAETHYLPENTADECANE
			N-HEPTADECANE
UNK600	91600	11.4	2,6,10,14-TETRAETHYLHEXADECANE
UNK605	91605	14.4	N-NONADECANE
UNK608	91608	5.42	UNK
UNK617	91617	11.3	ALKENE
UNK632	91632	14.7	DIHEPTYLPHTHALATE
UNK635	91635	28.1	A PHTHALATE
UNK640	91640	27.3	A PHTHALATE
UNK643	91643	77.5	A PHTHALATE
UNK650	91650	19.6	A PHTHALATE
UNK651	91651	7.83	A PHTHALATE
UNK655	91655	39.9	A PHTHALATE
UNK671	91671	12.6	A PHTHALATE

PARAMETERS	STORET #	TACC	TENTATIVE ID
UNITS	METHOD	2	
DATE	07/01/86		
TIME	08:36		
UNK123	91123	1720	
UNK127	91127	723	
UNK129	91129	773	
UNK144	91144	9640	
UNK147	91147	3780	
UNK514	91514	7700	C ₈ H ₁₀ , POSSIBLY 3-METHYL-1,3,5- HEXATRIENE
UNK515	91515	3630	TOLUENE
UNK522	91522	2400	XYLENE, POSSIBLY 1,4-CYCLO- OCTADIENE
UNK526	91526	2680	ETHYLBENZENE
UNK527	91527	9000	XYLENE
UNK529	91529	3820	BICYCLO COMPOUND
UNK530	91530	7000	XYLENE
UNK531	91531	1750	BICYCLO COMPOUND
UNK532	91532	1720	ISOMER OF UNK531
UNK536	91536	950	UNK
UNK538	91538	790	POSSIBLY METHYL ETHYL BENZENE
UNK539	91539	17200	BICYCLO COMPOUND
UNK540	91540	1450	BICYCLO COMPOUND
UNK541	91541	2710	UNK
UNK543	91543	1550	POSSIBLY BICYCLODIHYDRO- PENTADIENE
UNK548	91548	46600	ISOMER OF UNK543
UNK549	91549	8350	BICYCLO COMPOUND
UNK553	91553	61000	c ₁₁ h ₁₀
UNK555	91555	30400	BICYCLO COMPOUND
UNK556	91556	39200	UNK, c ₁₂ h ₁₆
UNK558	91558	28500	ISOMER OF UNK556
UNK559	91559	5050	UNK
UNK560	91560	3470	NAPTHALENE, ALICYCLIC COMPOUND
UNK561	91561	7000	NAPTHALENE, ALICYCLIC COMPOUND
UNK562	91562	15200	NAPTHALENE, ALICYCLIC COMPOUND
UNK563	91563	6150	BICYCLO COMPOUND, UNK
UNK564	91564	3680	ALICYCLIC COMPOUND, UNK
UNK565	91565	5170	ALICYCLIC COMPOUND, UNK
UNK566	91566	1270	UNK
UNK567	91567	1550	UNK
UNK569	91569	4800	UNK
UNK570	91570	6050	METHYL NAPTHALENE
UNK574	91574	1070	UNK, ALICYCLIC COMPOUND
UNK575	91575	8100	UNK, BICYCLIC COMPOUND
UNK576	91576	3640	UNK, ALICYCLIC COMPOUND

PARAMETERS	STORET #	TACC	TENTATIVE ID
UNITS	METHOD	2	
DATE	07/01/86		
TIME	08:36		
UNK577	91577 775		UNK, ALICYCLIC COMPOUND
UNK579	91579 1890		UNK, ALICYCLIC COMPOUND
UNK583	91583 13900		UNK, ALICYCLIC COMPOUND
UNK584	91584 8050		UNK
UNK585	91585 2890		UNK, ALICYCLIC COMPOUND
UNK587	91587 34300		UNK, BICYCLIC COMPOUND
UNK588	91588 7230		UNK, ALICYCLIC COMPOUND
UNK590	91590 16300		UNK, ALICYCLIC COMPOUND
UNK591	91591 890		UNK, ALICYCLIC COMPOUND
UNK593	91593 4220		UNK, ALICYCLIC COMPOUND
UNK597	91597 1590		UNK, ALICYCLIC COMPOUND
UNK602	91602 770		UNK, ALICYCLIC COMPOUND
UNK612	91612 1290		UNK, ALICYCLIC COMPOUND
UNK615	91615 750		UNK
UNK617	91617 1310		UNK
UNK619	91619 1260		UNK, ALICYCLIC COMPOUND
UNK621	91621 635		UNK
UNK623	91623 335		UNK
UNK624	91624 403		UNK
UNK626	91626 2250		UNK
UNK627	91627 484		UNK
UNK672	91672 4990		UNK
UNK694	91694 3550		UNK

PARAMETERS	STORET #	01020	TENTATIVE ID
UNITS	METHOD	14CC	
DATE	06/25/86	3	
TIME	10:30		
UNK048	91048	13.0	1,2-DICHLOROETHENE
UNK079	91079	6.80	NO MATCH
UNK087	91087	33.4	1,2-DICHLOROPROPENE
UNK193	91193	144	DICHLOROBENZENE
UNK524	91524	54.6	CHLOROBENZENE
UNK532	91532	5.99	1,1,2,2-TETRACHLOROETHANE
UNK543	91543	11.1	DICHLOROBENZENE
UNK545	91545	39.0	DICHLOROBENZENE
UNK558	91558	8.13	SULFUR COMPOUND, POSSIBLY 1,3-DITHIOLANE
UNK566	91566	28.7	UNK
UNK572	91572	8.66	UNK
UNK574	91574	99.5	UNK
UNK578	91578	30.6	UNK
UNK580	91580	10.4	N-METHYL LUTIDON (c8h11n0)
UNK581	91581	14.8	UNK
UNK582	91582	13.4	ALKANE, UNK
UNK584	91584	540	UNK
UNK588	91588	19.4	N-HEXADECANE
UNK591	91591	22.6	UNK
UNK594	91594	38.2	N-HEPTADECANE, ALKANE
UNK600	91600	11.5	ALKANE
UNK604	91604	37.2	UNK
UNK605	91605	19.9	N-NONADECANE
UNK608	91608	51.0	UNK
UNK609	91609	139	UNK
UNK610	91610	15.7	N-EICOSANE, UNK
UNK616	91616	100	UNK
UNK617	91617	6.34	ALIPHATIC HYDROCARBON
UNK619	91619	13.9	UNK
UNK620	91620	7.23	UNK
UNK629	91629	7.70	UNK
UNK632	91632	6.43	A PHTHALATE
UNK635	91635	12.1	A PHTHALATE
UNK640	91640	6.39	A PHTHALATE
UNK643	91643	22.9	A PHTHALATE
UNK650	91650	6.91	A PHTHALATE
UNK655	91655	12.0	A PHTHALATE

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	:	
DATE	06/24/86		
TIME	09:06		
UNK122	91122	4.22	NO MATCH
UNK517	91517	19.8	CYCLOPENTANONE
UNK573	91573	29.9	DECANOIC ACID
UNK575	91575	29.0	TETRADECANE
UNK578	91578	16.1	ALIPHATIC HYDROCARBON
UNK579	91579	20.8	ALIPHATIC HYDROCARBON
UNK582	91582	210	PENTADECANE
UNK585	91585	102	ALIPHATIC HYDROCARBON
UNK586	91586	125	ALIPHATIC HYDROCARBON
UNK587	91587	19.5	ALIPHATIC HYDROCARBON
UNK588	91588	706	HEXADECANE
UNK591	91591	398	ALIPHATIC HYDROCARBON
UNK592	91592	99.9	ALIPHATIC HYDROCARBON
UNK594	91594	1250	ALIPHATIC HYDROCARBON, HEPTADECANE
UNK596	91596	164	ALIPHATIC HYDROCARBON
UNK597	91597	107	ALIPHATIC HYDROCARBON
UNK598	91598	125	ALIPHATIC HYDROCARBON
UNK600	91600	1030	OCTADECANE, ALIPHATIC HYDRO- CARBON
UNK601	91601	25.7	ALIPHATIC HYDROCARBON
UNK602	91602	176	ALIPHATIC HYDROCARBON
UNK603	91603	212	ALIPHATIC HYDROCARBON
UNK605	91605	731	NONADECANE, ALIPHATIC HYDRO- CARBON
UNK607	91607	72.0	ALIPHATIC HYDROCARBON
UNK608	91608	88.4	ALIPHATIC HYDROCARBON
UNK610	91610	335	N-EICOSANE
UNK612	91612	126	ALIPHATIC HYDROCARBON
UNK613	91613	58.5	ALIPHATIC HYDROCARBON
UNK614	91614	45.6	ALIPHATIC HYDROCARBON
UNK615	91615	111	N-HENEICOSANE
UNK617	91617	271	ALIPHATIC HYDROCARBON
UNK619	91619	32.7	ALIPHATIC HYDROCARBON
UNK620	91620	45.2	DOCOSANE
UNK621	91621	35.8	ALIPHATIC HYDROCARBON
UNK626	91626	38.9	ALIPHATIC HYDROCARBON
UNK627	91627	191	ALIPHATIC HYDROCARBON
UNK628	91628	30.7	ALIPHATIC HYDROCARBON
UNK635	91635	29.1	PHTHALATE
UNK642	91642	23.3	UNK

PARAMETERS	02020		
UNITS	STORET #	T4CC2	TENTATIVE ID
	METHOD	4	
DATE	09/17/86		
TIME	11:16		
UNK642	91642	14.5	UNK
UNK671	91671	57.4	UNK
UNK693	91693	28.5	UNK

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	5	
DATE	06/27/86		
TIME	14:01		
UNK037	91037	27.6	2 PROPANONE
UNK042	91042	9.90	2 PROPANONE
UNK044	91044	40.0	2 PROPANONE
UNK079	91079	4.10	CHLOROFORM
UNK152	91152	6.50	N METHYLMETHAMINE
UNK559	91559	6.82	HEXANOIC ACID, OCTANOIC ACID
UNK563	91563	35.6	UNK
UNK573	91573	28.3	DECANOIC ACID
UNK576	91576	30.7	UNK
UNK580	91580	9.53	UNK
UNK582	91582	27.2	N-PENTADECANE
UNK585	91585	12.3	ALKENE OR ALCOHOL
UNK587	91587	287	DODECANOIC ACID
UNK588	91588	96.4	N-HEXADECANE
UNK589	91589	9.32	ALKENE OR ALCOHOL
UNK591	91591	45.0	ALIPHATIC HYDROCARBON, 2,6,10-TRIMETHYLPENTADECANE
UNK592	91592	20.2	ALKENE, ALIPHATIC HYDROCARBON
UNK593	91593	45.6	UNK, ALIPHATIC HYDROCARBON
UNK594	91594	152	N-HEPTADECANE
UNK595	91595	52.1	2,6,10,14-TETRAMETHYLPENTADECANE
UNK597	91597	40.5	ALIPHATIC HYDROCARBON
UNK598	91598	61.4	TETRADECANOIC ACID
UNK600	91600	125	N-OCTADECANE
UNK601	91601	55.1	2,6,10,14-TETRAMETHYLHEXADECANE
UNK602	91602	18.5	ALIPHATIC HYDROCARBON
UNK603	91603	8.91	ALIPHATIC HYDROCARBON
UNK604	91604	8.77	ALIPHATIC HYDROCARBON
UNK605	91605	64.7	ALKENE OR ALCOHOL, HYDROCARBON
UNK606	91606	117	N-NONADECANE
UNK609	91609	89.2	HEXADECANOIC ACID
UNK611	91611	76.3	N-EICOSANE
UNK614	91614	26.9	ALKENE OR ALCOHOL
UNK615	91615	33.7	ALKENE OR ALCOHOL
UNK616	91616	32.6	N-HENEICOSANE
UNK617	91617	0.0	NOT FOUND
UNK618	91618	466	ALCOHOL OR ALKENE
UNK620	91620	9.68	ALIPHATIC HYDROCARBON
UNK632	91632	16.9	ALIPHATIC HYDROCARBON
UNK635	91635	14.9	BIS(2-ETHYLHEXYL)PHTHALATE
UNK642	91642	14.5	UNK

		02034	
PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	5	
DATE	09/05/86		
TIME	13:57		
UNK059	91059	19.8	1 PROPAMINE
UNK515	91515	7.34	1,1,2-TRICHLOROETHANE
UNK531	91531	10.6	1,1,2,2-TETRACHLOROETHANE
UNK565	91565	219	CAPROLACTAM

PARAMETERS	STORET #	02035	TENTATIVE ID
UNITS	METHOD	14CC	
DATE	06/25/86		
TIME	09:02		
UNK515	91515	9.64	1,1,2-TRICHLOROETHANE
UNK532	91532	17.6	1,1,2,2-TETRACHLOROETHANE
UNK551	91551	6.89	UNK
UNK594	91594	11.3	N-HEPTADECANE
UNK600	91600	37.9	N-HEXADECANE, ALKANE
UNK605	91605	8.45	N-NONADECANE
UNK608	91608	6.76	HEXADECANOIC ACID
UNK617	91617	14.8	OCTADECANOIC ACID
UNK632	91632	6.69	A PHTHALATE
UNK635	91635	12.1	A PHTHALATE
UNK640	91640	7.01	A PHTHALATE
UNK650	91650	9.97	A PHTHALATE
UNK655	91655	19.5	A PHTHALATE
UNK671	91671	5.60	A PHTHALATE

PARAMETERS	02035	
UNITS	STORET # T4CC2	TENTATIVE ID
DATE	METHOD 6	
TIME	09/05/86	
UNK565	15:00	
	91565 73.9	CAPROLACTAM

PARAMETERS	STORET #	TACC	TENTATIVE ID
UNITS	METHOD	7	
DATE	06/23/86		
TIME	11:26		
UNK532	91532 7.83		1,1,2,2-TETRACHLOROETHANE
UNK585	91585 7.56		UNK
UNK617	91617 10.1		UNK
UNK632	91632 5.88		PHTHALATE
UNK635	91635 10.8		PHTHALATE
UNK640	91640 5.85		PHTHALATE
UNK642	91642 35.5		UNK
UNK650	91650 6.95		PHTHALATE
UNK655	91655 11.2		PHTHALATE
UNK660	91660 67.4		UNK
UNK661	91661 56.2		UNK
UNK671	91671 6.49		PHTHALATE

PARAMETERS	STORET #	TICC	TENTATIVE ID
UNITS	METHOD	8	
DATE	06/23/86		
TIME	15:55		
UNK562	91562	7.88	UNK
UNK576	91576	7.31	UNK
UNK586	91586	9.11	DODECANOIC ACID
UNK608	91608	8.47	HEXADECANOIC ACID
UNK617	91617	7.81	ALCOHOL OR UNSATURATED FATTY ACIDS
UNK619	91619	15.8	BUTYL HEXADECANOATE
UNK628	91628	10.2	ISOBUTYL OCTADECANOATE
UNK631	91631	6.81	PHTHALATE
UNK632	91632	19.9	PHTHALATE
UNK633	91633	7.97	ALIPHATIC HYDROCARBON
UNK635	91635	36.2	PHTHALATE
UNK637	91637	6.94	ALIPHATIC HYDROCARBON
UNK640	91640	35.5	PHTHALATE
UNK641	91641	35.3	UNK
UNK642	91642	173	UNK
UNK643	91643	56.2	PHTHALATE
UNK644	91644	16.9	UNK
UNK645	91645	35.1	UNK
UNK646	91646	14.7	ALIPHATIC HYDROCARBON
UNK648	91648	6.63	PHTHALATE
UNK650	91650	32.9	PHTHALATE
UNK651	91651	13.6	PHTHALATE
UNK652	91652	8.72	ALIPHATIC HYDROCARBON
UNK655	91655	57.8	PHTHALATE
UNK671	91671	19.8	PHTHALATE

PARAMETERS	STORET #	TACC	TENTATIVE ID
UNITS	METHOD	9	
DATE	06/24/86		
TIME	10:05		
UNK565	91565	165	CAPROLACTAM
UNK608	91608	7.02	UNK
UNK618	91618	7.93	UNK
UNK621	91621	80.1	UNK
UNK627	91627	17.0	UNK, OCTADECANAMIDE
UNK628	91628	21.5	OCTADECANAMIDE
UNK637	91637	29.4	UNK
UNK642	91642	425	UNK
UNK647	91647	10.7	UNK
UNK655	91655	11.4	OCTANOIC ACID, 1,2,3-PROPANETRYL
UNK657	91657	33.4	UNK
UNK674	91674	1650	UNK

PARAMETERS UNITS	STORET # METHOD	03005 TACC 10	TENTATIVE ID
DATE TIME	06/11/86 11:50		
UNK515	91515	7.59	1,1,2-TRICHLOROETHANE
UNK532	91532	14.4	1,1,2,2-TETRACHLOROETHANE
UNK575	91575	27.7	N-TETRADECANE
UNK576	91576	7.49	UNK
UNK578	91578	11.5	C15 ALKENE
UNK579	91579	15.6	C15 ALKENE
UNK582	91582	113	N-PENTADECANE
UNK585	91585	24.6	C16 ALKENE
UNK586	91586	51.0	C16 ALKENE, C17 ALKENE
UNK588	91588	329	N-HEXADECANE
UNK591	91591	154	C17, C18 ALKENE
UNK592	91592	38.3	C17 ALKENE
UNK594	91594	672	N-HEPTADECANE, 2,6,10,14-TETRA- METHYLPENTADECANE
UNK596	91596	59.9	C18 ALKENE
UNK597	91597	51.7	C18 ALKENE
UNK598	91598	15.1	C18 ALKENE
UNK599	91599	BK	
UNK600	91600	517	N-OCTADECANE, C19 ALKENE, 2,6,10,14-TETRAMETHYLHEXADECANE
UNK602	91602	39.5	C19 ALKENE
UNK603	91603	73.4	C19 ALKENE
UNK605	91605	303	N-NONADECANE
UNK608	91608	13.7	C20 ALKENE
UNK610	91610	109	N-EICOSANE
UNK612	91612	11.7	C21 ALKENE
UNK614	91614	15.8	C21 ALKENE
UNK615	91615	32.4	N-HENEICOSANE
UNK617	91617	12.6	C22 ALKENE
UNK620	91620	13.2	N-DOCONANE
UNK621	91621	16.9	C23 ALKENE
UNK642	91642	112	UNK

PARAMETERS	03523		TENTATIVE ID
UNITS	STORET #	T4WC	
	METHOD	I	
DATE	06/04/86		
TIME	13:47		
UNK567	91567 *OK15.9		NO MATCH
UNK581	91581 *OK10.5		NO MATCH
UNK582	91582 *OK28.6		NO MATCH
UNK586	91586 *OK8.32		METHYL TRICYCLO(3,2,1,0,2,7)OCT- 3-ENE-5-CARBOXYLATE

PARAMETERS
UNITS

DATE
TIME

04007
STORET # T4WC
METHOD 2
06/04/86
14:13

TENTATIVE ID

PARAMETERS	04014		TENTATIVE ID
UNITS	STORET #	T4WC2	
	METHOD	S	
DATE	08/26/86		
TIME	08:04		
UNK532	91532	16.0	1,1,2,2-TETRACHLOROETHANE
UNK564	91564	740	CAPROLACTAM
UNK622	91622	9.71	UNK
UNK642	91642	871	UNK
UNK672	91672	6040	UNK
UNK695	91695	4160	UNK

PARAMETERS	STORET #	T4WC2	TENTATIVE ID
UNITS	METHOD	6	
DATE	08/25/86		
TIME	10:18		
UNK531	91531	6.44	1,1,2,2-TETRACHLOROETHANE
UNK565	91565	1120	CAPROLACTAM
UNK636	91636	7.45	PHTHALATE
UNK642	91642	47.4	UNK
UNK671	91671	304	UNK
UNK693	91693	223	UNK

		04027	
PARAMETERS	STORET #	T4WC2	TENTATIVE ID
UNITS	METHOD	7	
DATE	08/26/86		
TIME	11:59		
UNK565	91565	668	CAPROLACTAM
UNK642	91642	31.9	UNK
UNK671	91671	207	UNK
UNK693	91693	132	UNK

PARAMETERS	04030	TENTATIVE ID
UNITS	STORET # TJWC	
DATE	METHOD 3	
TIME	06/04/86	
UNK518	08:24	
	91518 *OK16.8	CYCLOPENTANONE

PARAMETERS	04033	TENTATIVE ID
UNITS	STORET # TWC	
DATE	METHOD 4	
TIME	06/C4/86	
UNK565	09:01	HEXAHYDRO-2H-AZEPIN-2-ONE
UNK622	91565 *OK5.75	NO MATCH
UNK642	91622 *OK5.88	NO MATCH
	91642 *OK51.9	NO MATCH

PARAMETERS	6005	
UNITS	STORET # T43WC	TENTATIVE ID
DATE	METHOD 4	
TIME	06/04/86	
UNK642	11:37	
	91642 *OK11.1	NO MATCH

PARAMETERS	07001	TENTATIVE ID
UNITS	STORET # T4BWC	
DATE	METHOD 1	
TIME	05/29/86	
	11:26	

PARAMETERS	09005	TENTATIVE ID
UNITS	STORET #	
DATE	METHOD	
TIME	06/05/86	
	11:05	

PARAMETERS	11002	TENTATIVE ID
UNITS	STORET # T4BWC	
DATE	METHOD 2	
TIME	05/29/86	
	08:45	

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	11	
DATE	06/12/86		
TIME	09:37		
UNK517	91517	14.6	CYCLOPENTANONE
UNK568	91568	7.64	N-TRIDECANE
UNK575	91575	38.2	N-TETRADECANE
UNK578	91578	16.5	C14 OR C15 ALKENE
UNK579	91579	19.6	C15 ALKENE
UNK582	91582	114	N-PENTADECANE
UNK583	91583	6.75	BIPHENYL-OL
UNK585	91585	37.6	C16 ALKENE
UNK586	91586	33.0	C16 ALKENE
UNK588	91588	342	N-HEXADECANE
UNK591	91591	131	C17 OR C18 ALKANE OR ALKENE, 2,6,10-TRIMETHYLPENTADECANE
UNK592	91592	16.9	C18 OR C17 ALKENE
UNK594	91594	532	N-HEPTADECANE, 2,6,10,14-TETRA- METHYLPENTADECANE
UNK596	91596	54.5	C18 ALKENE, ALKANE
UNK597	91597	46.9	C18 ALKENE
UNK598	91598	13.6	C18 ALKENE
UNK599	91599	382	N-OCTADECANE
UNK600	91600	111	2,6,10,14-TETRAMETHYLHEXADECANE
UNK602	91602	38.3	C19 OR C20 ALKENE
UNK603	91603	77.0	C19 OR C20 ALKENE
UNK605	91605	247	N-NONADECANE, C19 ALKENE
UNK607	91607	16.4	C20 OR C21 ALKENE
UNK608	91608	15.9	C20 ALKENE
UNK610	91610	129	N-EICOSANE
UNK612	91612	13.0	C20 OR C21 ALKENE
UNK613	91613	6.84	C21 ALKENE
UNK614	91614	17.8	C21 ALKENE
UNK615	91615	38.5	N-HENEICOSANE
UNK617	91617	19.1	C21 ALKENE
UNK620	91620	15.9	C21 OR C22 ALKENE
UNK621	91621	20.8	C23 ALKENE
UNK642	91642	11.6	UNK

PARAMETERS UNITS	STORET # METHOD	22024 T:CC 12	TENTATIVE ID
DATE	06/12/86		
TIME	07:28		
UNK517	91517	26.9	CYCLOPENTANONE
UNK545	91545	9.95	LIMONENE
UNK552	91552	12.9	NONANAL
UNK568	91568	19.4	N-TRIDECANE
UNK573	91573	14.8	DECANOIC ACID, C15 ALKENE
UNK575	91575	120	N-TETRADECANE
UNK578	91578	51.2	C14 OR C15 ALKENE
UNK579	91579	77.7	C15 OR C16 ALKENE
UNK580	91580	26.8	C16 ALKENE, ALKENE
UNK582	91582	504	N-PENTADECANE
UNK583	91583	27.1	BIPHENYL-OL
UNK585	91585	126	C16 OR C17 ALKENE, ALKENE
UNK586	91586	178	C16 OR C17 ALKENE
UNK587	91587	52.8	C17 ALKENE, ALKENE
UNK588	91588	1060	N-HEXADECANE
UNK589	91589	14.6	C17 ALKENE OR ALKENE
UNK591	91591	580	2,6,10-TRIMETHYLPENTADECANE, C17 OR C18 ALKENE
UNK592	91592	144	C18 ALKENE
UNK594	91594	1790	N-HEPTADECANE, 2,6,10,14-TETRA- METHYLPENTADECANE
UNK596	91596	175	ALIPHATIC HYDROCARBON
UNK597	91597	273	ALIPHATIC HYDROCARBON
UNK598	91598	201	ALIPHATIC HYDROCARBON
UNK600	91600	1620	N-OCTADECANE, ALIPHATIC HYDROCARBON
UNK602	91602	132	ALIPHATIC HYDROCARBON
UNK603	91603	266	ALIPHATIC HYDROCARBON
UNK604	91604	79.2	ALIPHATIC HYDROCARBON
UNK605	91605	749	ALIPHATIC HYDROCARBON, N-NONADECANE
UNK607	91607	43.7	ALIPHATIC HYDROCARBON
UNK608	91608	102	ALIPHATIC HYDROCARBON
UNK610	91610	358	N-EICOSANE
UNK612	91612	47.7	ALIPHATIC HYDROCARBON
UNK613	91613	81.5	ALIPHATIC HYDROCARBON
UNK615	91615	103	N-HENEICOSANE
UNK617	91617	36.8	ALIPHATIC HYDROCARBON
UNK619	91619	34.3	N-DOCOSANE
UNK621	91621	37.6	ALIPHATIC HYDROCARBON
UNK632	91632	20.7	ALIPHATIC HYDROCARBON
UNK642	91642	110	UNK

		22059	
PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	7	
DATE	09/03/86		
TIME	10:24		
UNK515	91515	26.6	1,1,2-TRICHLOROETHANE
UNK531	91531	39.1	1,1,2,2-TETRACHLOROETHANE
UNK565	91565	451	CAPROLACTAM
UNK642	91642	1340	UNK
UNK647	91647	12.4	UNK
UNK654	91654	1580	UNK
UNK672	91672	7400	UNK
UNK694	91694	6320	UNK

		22060	
PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	S	
DATE	09/03/86		
TIME	08:05		
UNK564	91564	28.6	CAPROLACTAM
UNK642	91642	63.3	UNK
UNK650	91650	20.3	UNK
UNK654	91654	960	UNK
UNK671	91671	130	UNK
UNK693	91693	60.9	UNK

PARAMETERS	STORET #	23095	TENTATIVE ID
UNITS	METHOD	T4CC2	
DATE	09/03/86	9	
TIME	12:31		
UNK036	91036	13.0	
UNK049	91049	4.45	
UNK053	91053	4.80	
UNK123	91123	38.6	PROPANEDINITRYL
UNK144	91144	6.30	ISOMER OF DICYCLOPENTADIENE
UNK146	91146	8.30	ISOMER OF DICYCLOPENTADIENE
UNK158	91158	21.5	PROPAMIN ACID
UNK161	91161	310	TETRACYCLOHEPTANE, ISOBUTYLBENZENE
UNK177	91177	8.40	HEXACHLOROBUTADIENE
UNK518	91518	20.4	TETRACHLOROETHENE
UNK551	91551	10.9	UNK
UNK552	91552	10.7	UNK
UNK553	91553	26.8	UNK
UNK555	91555	119	UNK
UNK558	91558	25.3	UNK
UNK561	91561	16.3	UNK
UNK562	91562	9.45	TETRACHLOROSTANNANE
UNK564	91564	11.8	UNK
UNK566	91566	131	CYCLIC COMPOUND
UNK570	91570	97.0	POSSIBLY ALPHA-METHYLBENZYLAMINE
UNK571	91571	29.7	UNK
UNK572	91572	11.1	UNK
UNK574	91574	9.25	UNK
UNK575	91575	9.33	UNK
UNK577	91577	26.3	BICYCLO OR TRICYCLO COMPOUND
UNK579	91579	1730	UNK
UNK581	91581	115	BICYCLO OR TRICYCLO COMPOUND
UNK584	91584	399	UNK
UNK586	91586	1260	UNK
UNK588	91588	620	UNK
UNK591	91591	35.5	HEPTACHLOROBICYCLO[2,2,1]- HEPT-2-ENE
UNK595	91595	95.8	UNK
UNK605	91605	20.5	UNK
UNK606	91606	55.5	UNK
UNK609	91609	236	UNK
UNK618	91618	19.5	UNK
UNK621	91621	11.8	UNK
UNK622	91622	69.0	UNK
UNK625	91625	55.6	HEXACHLORO COMPOUND
UNK632	91632	120	UNK
UNK638	91638	56.0	UNK
UNK642	91642	740	UNK
UNK647	91647	94.2	UNK
UNK654	91654	12.2	PHTHALATE
UNK656	91656	39.4	UNK
UNK672	91672	4170	UNK
UNK695	91695	4100	UNK

PARAMETERS	23-191	TENTATIVE ID
UNITS	STORET # T4CC2	
DATE	METHOD 15	
TIME	09/04/86	
	15:15	
UNK515	91515 10.7	1,1,2-TRICHLOROETHANE
UNK531	91531 16.7	1,1,2,2-TETRACHLOROETHANE
UNK551	91551 6.10	UNK
UNK565	91565 263	CAPROLACTAM
UNK579	91579 13.7	UNK
UNK582	91582 7.86	UNK
UNK588	91588 23.2	HEXADECANE
UNK591	91591 19.9	ALKANE
UNK594	91594 50.2	HEPTADECANE
UNK595	91595 24.7	2,6,10,14-TETRAMETHYLPENTADECANE
UNK597	91597 6.52	ALKENE
UNK600	91600 29.2	OCTADECANE
UNK601	91601 18.0	ALKANE, ALKENE
UNK605	91605 27.3	NONADECANE
UNK611	91611 10.9	ALKANE
UNK642	91642 660	UNK
UNK671	91671 2370	UNK
UNK694	91694 2150	UNK

PARAMETERS	23-192		TENTATIVE ID
UNITS	STORET #	T4CC2	
	METHOD	17	
DATE	09/05/86		
TIME	16:00		
UNK564	91564	29.9	CAPROLACTAM
UNK582	91582	7.54	N-PENTADECANE
UNK588	91588	26.3	N-HEXADECANE
UNK591	91591	13.6	ALKENE
UNK594	91594	49.3	N-HEPTADECANE
UNK595	91595	17.9	2,6,10,16-TETRAMETHYLPENTADECANE
UNK598	91598	6.92	ALKENE
UNK600	91600	36.0	N-OCTADECANE
UNK601	91601	15.9	2,6,10,14-TETRAMETHYLHEXADECANE
UNK605	91605	25.0	N-NONADECANE
UNK609	91609	68.0	UNK
UNK611	91611	14.6	N-EICOSANE
UNK622	91622	20.6	UNK
UNK638	91638	50.1	UNK
UNK642	91642	355	UNK
UNK647	91647	22.2	UNK
UNK656	91656	11.6	UNK
UNK671	91671	1460	UNK
UNK693	91693	1170	UNK

PARAMETERS	23125		
UNITS	STORET #	T4CC2	TENTATIVE ID
DATE	METHOD	10	
TIME	09/25/86		
	15:24		
UNK055	91055	*OK9.70	THF
UNK089	91089	*BK0	NO MATCH
UNK129	91129	*BK0	NO MATCH
UNK174	91174	*BK0	NO MATCH
UNK653	91653	331	CORRESPONDING LOT-HIT-NOT FOUND

PARAMETERS	STORET #	TACC	TENTATIVE ID
UNITS	METHOD	13	
DATE	06/26/86		
TIME	08:47		
UNK055	91055	31.7	
UNK064	91064	156	
UNK515	91515	7.39	1,1,2-TRICHLOROETHANE
UNK517	91517	15.2	CYCLOPENTANONE
UNK532	91532	13.6	1,1,2,2-TETRACHLOROETHANE
UNK551	91551	10.3	UNK
UNK563	91563	15.7	UNK
UNK575	91575	10.6	N-TETRADECANE
UNK579	91579	46.4	DIMETHYL PHTHALATE, UNK
UNK582	91582	44.4	N-PENTADECANE, UNK
UNK586	91586	13.3	ALIPHATIC HYDROCARBON
UNK587	91587	96.8	UNK
UNK588	91588	46.1	N-HEXADECANE
UNK591	91591	73.0	ALIPHATIC HYDROCARBON, 2,6,10-TRIMETHYLPENTADECANE
			ALKENE OR ALCOHOL
UNK592	91592	20.3	ALKANE, ALIPHATIC HYDROCARBON
UNK594	91594	157	N-HEPTADECANE, 2,6,10,14-TETRA- METHYLPENTADIENE
UNK596	91596	15.5	ALIPHATIC HYDROCARBON
UNK597	91597	18.0	ALIPHATIC HYDROCARBON
UNK600	91600	134	N-OCTADECANE, 2,6,10,14-TETRA- METHYLHEXADECANE
UNK602	91602	14.1	ALIPHATIC HYDROCARBON
UNK603	91603	17.0	ALIPHATIC HYDROCARBON
UNK604	91604	7.16	ALIPHATIC HYDROCARBON
UNK605	91605	70.9	N-NONADECANE
UNK607	91607	6.80	ALIPHATIC HYDROCARBON
UNK608	91608	8.96	ALIPHATIC HYDROCARBON
UNK610	91610	33.1	N-EICOSANE
UNK615	91615	12.0	N-HEHEICOSANE
UNK617	91617	15.3	ALKENE OR ALCOHOL
UNK621	91621	7.17	ALIPHATIC HYDROCARBON
UNK635	91635	22.0	A PHTHALATE, BIS(2-ETHYLHEXYL)- PHTHALATE

PARAMETERS UNITS	STORET # METHOD	23177 TJCC 15 06/12/86 15:00	TENTATIVE ID
DATE			
TIME			
UNK575	91575	11.3	N-TETRADECANE
UNK578	91578	6.56	C14 ALKENE
UNK579	91579	6.87	C15 ALKENE
UNK582	91582	47.5	N-PENTADECANE
UNK585	91585	11.8	C16 ALKENE, ALKENE
UNK586	91586	15.4	C16 ALKENE
UNK588	91588	154	N-HEXADECANE
UNK591	91591	65.7	C17 ALKENE, 2,6,10-TRIMETHYL- PENTADECANE
UNK592	91592	16.0	C17 ALKENE
UNK594	91594	259	N-HEPTADECANE, 2,6,10,14-TETRA- METHYLPENTADECANE
UNK596	91596	25.1	C18 ALKENE
UNK597	91597	20.1	C17 OR C18 ALKENE
UNK598	91598	6.36	C18 ALKENE
UNK600	91600	257	N-OCTADECANE, 2,6,10,14-TETRA- METHYLHEXADECANE
UNK601	91601	BK	
UNK602	91602	21.1	C19 ALKENE
UNK603	91603	30.8	C19 ALKENE
UNK604	91604	9.38	C19 ALKENE
UNK605	91605	112	N-NONADECANE
UNK610	91610	55.8	N-EICOSANE
UNK614	91614	6.58	C21 ALKENE
UNK615	91615	19.5	N-HENEICOSANE
UNK620	91620	7.69	N-DOCOSANE
UNK621	91621	8.75	C22 ALKENE
UNK642	91642	71.0	UNK
UNK664	91664	414	

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	16	
DATE	06/12/86		
TIME	09:42		
UNK161	91161	24400	NO MATCH
UNK515	91515	6.52	1,1,2-TRICHLOROETHANE
UNK517	91517	40.5	CYCLOPENTANONE
UNK519	91519	17.7	TETRACHLOROETHENE
UNK532	91532	22.2	1,1,2,2-TETRACHLOROETHANE
UNK536	91536	16.3	UNK
UNK540	91540	8.68	PHOSPHOROTHIDIC ACID, TRIMETHYL ESTER
UNK551	91551	24.4	UNK
UNK553	91553	41.9	UNK
UNK554	91554	19.7	UNK
UNK555	91555	106	UNK
UNK558	91558	20.0	UNK
UNK559	91559	17.0	UNK
UNK560	91560	6.56	UNK
UNK561	91561	20.6	UNK
UNK562	91562	33.2	HEXACHLOROBUTADIENE
UNK563	91563	28.7	UNK
UNK566	91566	32.3	UNK
UNK567	91567	20.4	UNK
UNK568	91568	16.7	8-OXATRICYCLO(2,2,2,0,2,6)- OCTAN-7-ONE (c17c18)
UNK570	91570	129	UNK
UNK572	91572	39.1	UNK
UNK573	91573	30.1	UNK
UNK574	91574	9.21	TETRACHLOROBENZENE
UNK575	91575	20.3	METHYLSULFOXYLBENZENE
UNK577	91577	65.4	UNK
UNK579	91579	250	UNK
UNK580	91580	544	UNK
UNK581	91581	38.1	UNK
UNK582	91582	51.6	UNK
UNK583	91583	102	2-(4-METHYL-2-FURYL)-2-CYCLO- PENTEN-/ONE, UNK
UNK584	91584	83.8	UNK
UNK587	91587	174	UNK
UNK588	91588	85.8	N-HEXADECANE
UNK589	91589	14.2	UNK
UNK590	91590	11.7	UNK
UNK591	91591	35.5	UNK, 2,6,10-TRIMETHYLPENTADECANE
UNK592	91592	7.55	UNK
UNK593	91593	8.40	UNK
UNK594	91594	133	N-HEPTADECANE, 2,6,10,14-TETRA- METHYLPENTADECANE
UNK595	91595	23.2	UNK
UNK596	91596	19.6	UNK
UNK597	91597	7.56	UNK
UNK598	91598	10.8	UNK

UNK600	91600	14.7	2,6,10,14-TETRAMETHYLHEXADECANE
UNK602	91602	31.7	UNK
UNK605	91605	62.7	N-NONADECANE
UNK606	91606	17.8	UNK
UNK608	91608	63.3	UNK, HEXADECANOIC ACID
UNK609	91609	10.3	DIHYDROXYLMETHYLBENZOATE
UNK610	91610	19.7	N-EICOSANE
UNK615	91615	7.90	N-HENEICOSANE
UNK619	91619	6.51	N-DOCOSANE
UNK620	91620	13.2	UNK
UNK621	91621	8.46	UNK
UNK622	91622	8.36	CHLORINATED COMPOUND W/ 4CL
UNK623	91623	7.56	UNK
UNK625	91625	12.0	UNK
UNK631	91631	10.4	UNK
UNK633	91633	10.6	CHLORINATED COMPOUND (cl4)
UNK635	91635	7.46	BIS(2-ETHYLHEXYL)PHTHALATE
UNK642	91642	14.1	UNK

PARAMETERS	STORET #	TENTATIVE ID
UNITS	METHOD	
DATE	09/02/86	
TIME	09:57	
UNK044	91044 6.40	2 PROPANIL
UNK053	91053 4.50	NO MATCH
UNK123	91123 30.8	ISOMER OF DICYCLOPENTADIENE
UNK144	91144 10.8	ISOMER OF DICYCLOPENTADIENE
UNK158	91158 54.7	ISOBUTYLBENZENE
UNK161	91161 699	ISOBUTYLBENZENE
UNK515	91515 17.2	1,1,2-TRICHLOROETHANE
UNK518	91518 46.2	TETRACHLOROETHENE
UNK531	91531 25.9	1,1,2,2-TETRACHLOROETHANE
UNK535	91535 21.2	UNK
UNK540	91540 50.4	UNK
UNK551	91551 36.3	UNK
UNK552	91552 20.4	UNK
UNK553	91553 48.7	UNK
UNK554	91554 32.2	UNK
UNK555	91555 174	UNK
UNK558	91558 24.8	UNK
UNK562	91562 19.1	HEXACHLOROBUTADIENE
UNK566	91566 1790	CAPROLACTAM
UNK569	91569 30.5	POSSILBY 8-OXATRICYCLO- (2,2,2,0,2,6)OCTAN-2-ONE
UNK570	91570 84.9	UNK
UNK571	91571 106	UNK
UNK572	91572 79.9	UNK
UNK573	91573 24.0	ALIPHATIC CYCLIC COMPOUND
UNK574	91574 24.6	UNK
UNK575	91575 32.7	UNK
UNK577	91577 126	UNK
UNK580	91580 1300	UNK
UNK581	91581 30.2	UNK
UNK582	91582 64.9	UNK
UNK583	91583 86.9	UNK
UNK584	91584 51.9	UNK
UNK587	91587 365	ALIPHATIC CYCLIC COMPOUND
UNK588	91588 38.3	UNK
UNK589	91589 22.7	UNK
UNK591	91591 19.0	HEPTACHLORO-BICYCLO-[2,2,1]- HEPT-2-ENE
UNK594	91594 20.9	UNK
UNK595	91595 17.8	UNK
UNK602	91602 75.5	UNK
UNK605	91605 37.7	UNK
UNK606	91606 52.0	UNK
UNK608	91608 121	UNK
UNK609	91609 17.4	UNK
UNK642	91642 255	UNK
UNK671	91671 1080	UNK
UNK693	91693 854	UNK

		23182	
PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	14	
DATE	09/04/86		
TIME	10:12		
UNK642	91642	186	UNK
UNK652	91652	110	UNK
UNK671	91671	680	UNK
UNK693	91693	413	UNK

PARAMETERS	23183	TENTATIVE ID
UNITS	STORET # T4CC2	
	METHOD 15	
DATE	09/04/86	
TIME	14:07	
UNK579	91579 5.88	DIMETHYL PHTHALATE
UNK587	91587 39.9	UNK

PARAMETERS	23185		
UNITS	STORET #	TACC	TENTATIVE ID
	METHOD	17	
DATE	06/19/86		
TIME	10:03		
UNK515	91515	8.38	1,1,2-TRICHLOROETHANE
UNK532	91532	14.2	1,1,2,2-TETRACHLOROETHANE
UNK562	91562	15.2	UNK
UNK563	91563	16.3	UNK
UNK576	91576	23.8	UNK
UNK582	91582	6.98	UNK
UNK588	91588	14.9	UNK
UNK591	91591	8.09	C17 OR C18 ALKANE
UNK594	91594	38.3	N-HEPTADECANE
UNK600	91600	12.7	2,6,10,14-TETRAMETHYLHEXADECANE
UNK605	91605	21.1	N-NONADECANE
UNK610	91610	11.7	N-HENEICOSANE
UNK628	91628	14.5	OCTADECANAMIDE, UNK
UNK642	91642	10.8	BIS(2-ETHYLHEXYL)PHTHALATE

PARAMETERS	STORET #	TACC	TENTATIVE ID
UNITS	METHOD	18	
DATE	06/19/86		
TIME	11:46		
UNK129	91129	13.5	1,4 DITHIAN
UNK161	91161	7.60	NO MATCH
UNK517	91517	18.2	CYCLOPENTANONE
UNK532	91532	10.4	1,1,2,2-TETRACHLOROETHANE
UNK541	91541	7.18	UNK
UNK553	91553	10.3	UNK
UNK555	91555	16.6	UNK
UNK558	91558	8.24	POSSIBLY N-HEXYLACETAMIDE
UNK561	91561	19.2	N,N'-BIS(1-METHYLETHYL)UN
UNK563	91563	6.60	UNK
UNK566	91566	9.13	UNK
UNK569	91569	27.3	UNK
UNK570	91570	52.2	UNK
UNK572	91572	7.52	UNK
UNK574	91574	9.41	UNK
UNK575	91575	9.87	UNK
UNK576	91576	17.6	UNK
UNK577	91577	11.3	UNK
UNK579	91579	6.58	UNK
UNK580	91580	251	UNK
UNK581	91581	7.26	UNK
UNK582	91582	33.1	N-PENTADECANE
UNK583	91583	11.2	POSSIBLY 2-(4-METHYL-2-FURYL)?
UNK584	91584	18.2	UNK
UNK586	91586	45.6	UNK
UNK587	91587	6.74	C12 ALKYNE
UNK588	91588	79.7	N-HEXADECANE, ALKENE OR ALCOHOL
UNK591	91591	32.5	ALKANE, 2,6,10-TRIMETHYL-PENTADECANE
UNK594	91594	137	N-HEPTADECANE, 2,6,10,14-TETRA-METHYLPENTADECANE
UNK596	91596	15.5	C18 ALKANE
UNK597	91597	13.4	C17 ALKENE
UNK599	91599	86.9	N-OCTADECANE
UNK600	91600	23.7	2,6,10,14-TETRAMETHYLHEXADECANE
UNK602	91602	36.2	UNK
UNK603	91603	16.2	ALKENE
UNK605	91605	72.4	N-NONADECANE, ALKANE OR ALKENE
UNK608	91608	15.0	ALKENE
UNK610	91610	32.0	N-EICOSANE
UNK615	91615	11.7	N-HENEICOSANE
UNK620	91620	7.65	UNK
UNK621	91621	7.80	UNK

PARAMETERS UNITS	STORET # METHOD	23190 TACC 19	TENTATIVE ID
DATE	06/19/86		
TIME	12:41		
UNK532	91532	7.31	1,1,2,2-TETRACHLOROETHANE
UNK575	91575	8.75	N-TETRADECANE
UNK579	91579	6.28	ALKANE
UNK582	91582	48.6	N-PENTADECANE
UNK585	91585	33.6	ALKENE
UNK586	91586	41.9	ALKANE, DODECANOIC ACID, ALKENE
UNK588	91588	190	N-HEXADECANE
UNK591	91591	74.0	ALKANE, 2,6,10-TRIMETHYL- PENTADECANE, ALKENE
UNK592	91592	19.1	ALKANE, ALKENE
UNK594	91594	267	ALKANE, N-HEPTADECANE, 2,6,10,14-TETRAMETHYLPENTANONE
UNK596	91596	30.1	ALKANE
UNK597	91597	65.8	ALKENE
UNK598	91598	7.57	ALKENE
UNK600	91600	228	N-OCTADECANE, 2,6,10,14-TETRA- METHYLHEXADECANE
UNK602	91602	23.6	ALKANE OR ALKENE
UNK603	91603	34.4	ALKENE
UNK605	91605	143	ALKANE, N-NONADECANE
UNK607	91607	9.65	ALKENE
UNK608	91608	28.1	ALKENE
UNK610	91610	59.9	N-EICOSANE
UNK614	91614	7.79	ALKENE
UNK615	91615	18.6	N-HENEICOSANE
UNK617	91617	15.7	ALKENE OR ALCOHOL
UNK619	91619	8.30	ALKENE
UNK620	91620	7.31	DOCOSANE OR ALKENE
UNK621	91621	9.35	ALIPHATIC HYDROCARBON
UNK635	91635	92.9	BIS(2-ETHYLHEXYL)PHTHALATE
UNK642	91642	35.6	UNK

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	20	
DATE	06/19/86		
TIME	14:22		
UNK519	91519	21.0	TETRACHLOROETHENE
UNK589	91589	33.7	UNK
UNK591	91591	6.12	1,2,3,4,5,7,7-HEPTACHLOR-NOR-BORNENE
UNK594	91594	9.79	2,6,10,14-TETRAMETHYLPENTADIENE
UNK600	91600	11.5	2,6,10,14-TETRAMETHYLHEXADIENE
UNK629	91629	26.2	POSSIBLY A BENZOTHAZENE
UNK635	91635	6.90	BIS(2-ETHYLHEXYL)PHTHALATE

PARAMETERS	24178	TENTATIVE ID
UNITS	STORET # T4CC2	
DATE	METHOD 18	
TIME	09/22/86	
	14:50	
UNK518	91518 32.1	TETRACHLOROETHANE
UNK589	91589 23.1	UNK
UNK629	91629 19.4	UNK

PARAMETERS	STORET #	25016 T4CC2	TENTATIVE ID
UNITS	METHOD	20	
DATE	09/05/86		
TIME	11:06		
UNK568	91568	2350	CAPROLACTAM
UNK571	91571	21.9	UNK
UNK599	91599	21.5	UNK
UNK617	91617	19.3	ALKENE OR ALCOHOL
UNK618	91618	49.4	OCTADECANOIC ACID, UNK
UNK619	91619	14.7	UNK
UNK620	91620	27.7	AN ALIPHATIC AMIDE, POSSIBLY HEXADECANAMIDE
UNK622	91622	81.6	UNK
UNK625	91625	6.91	UNK
UNK626	91626	7.32	UNK
UNK628	91628	305	AN ALIPHATIC AMIDE, LIKELY OCTADECENAMIDE
UNK629	91629	53.8	OCTADECANAMIDE
UNK635	91635	15.0	PHTHALATE
UNK636	91636	12.5	PHTHALATE
UNK637	91637	15.1	UNK
UNK638	91638	57.4	UNK
UNK642	91642	676	UNK
UNK647	91647	21.9	UNK
UNK652	91652	230	UNK
UNK656	91656	95.0	UNK
UNK671	91671	3470	UNK
UNK694	91694	2550	UNK

PARAMETERS	STORET #	T-CC	TENTATIVE ID
UNITS	METHOD	21	
DATE	06/25/86		
TIME	08:36		
UNK517	91517	13.8	UNK
UNK551	91551	14.9	UNK
UNK608	91608	9.06	HEXADECANOIC ACID
UNK617	91617	7.69	OCTADECANOIC ACID
UNK619	91619	6.01	
UNK620	91620	6.75	UNK
UNK623	91623	6.01	UNK
UNK628	91628	20.0	AN AMIDE, OCTADECANAMIDE
UNK635	91635	19.6	BIS(2-ETHYLHEXYL)PHTHALATE
UNK636	91636	6.30	UNK
UNK642	91642	26.6	UNK

		26011	
PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	71	
DATE	09/19/86		
TIME	08:54		
UNK565	91565	216	CAPROLACTAM
UNK579	91579	34.7	UNK
UNK585	91585	11.4	UNK
UNK642	91642	757	UNK
UNK671	91671	3760	UNK
UNK694	91694	3680	UNK

PARAMETERS	26015		TENTATIVE ID
UNITS	STORET #	T4CC2	
	METHOD	22	
DATE	09/22/86		
TIME	09:10		
UNK055	91055	53.5	THF
UNK562	91562	8.04	N-N'-BIS(1-METHYLETHYL)UREA
UNK565	91565	375	CAPROLACTAM
UNK570	91570	28.5	UNK
UNK579	91579	26.9	UNK
UNK602	91602	7.28	UNK
UNK609	91609	7.37	UNK
UNK642	91642	18.9	UNK
UNK671	91671	61.9	UNK
UNK693	91693	35.4	UNK

PARAMETERS	26017		TENTATIVE ID
UNITS	STORET #	T4CC2	
	METHOD	23	
DATE	09/22/86		
TIME	10:53		
UNK055	91055	26.0	THF
UNK565	91565	221	CAPROLACTAM
UNK642	91642	48.3	UNK
UNK671	91671	113	UNK
UNK693	91693	58.1	UNK

PARAMETERS	26020		
UNITS	STORET #	T4CC2	TENTATIVE ID
DATE	METHOD	24	
TIME	09/23/86		
UNK055	08:45		
	91055	122	THF

PARAMETERS	STORET #	TACC	TENTATIVE ID
UNITS	METHOD	23	
DATE	06/27/86		
TIME	10:28		
UNK020	91020	247	UNK
UNK044	91044	277	2 PROPANOL
UNK049	91049	28.3	DIMETHOXYMETHANE
UNK055	91055	23.4	THF
UNK123	91123	34.8	1,3-CYCLOPENTADIENE
UNK129	91129	46.4	1,4-DITHIAM
UNK156	91156	28.2	NO MATCH
UNK161	91161	141	TETRACYCLOHEPTANE
UNK513	91513	15.3	PYRIDINE
UNK514	91514	60.7	N-PROPYLPROPANAMINE
UNK515	91515	921	TOLUENE
UNK517	91517	182	CYCLOPENTANONE
UNK522	91522	21.2	CYCLOPENTEN-/-ONE
UNK523	91523	453	4-HYDROXY-4-METHYL-2-PENTANONE
UNK530	91530	8680	DMMP
UNK536	91536	1720	UNK
UNK540	91540	1080	METHYL-2,4-PENTANEDIOL
UNK543	91543	18.5	UNK
UNK546	91546	195	3,3,5-TRIMETHYLCYCLOHEXANON
UNK548	91548	501	POSSIBLY PHENOL
UNK554	91554	377	POSSIBLY CHLOROMETHYL PHENOL
UNK555	91555	882	TRIETHYLPHOSPHATE
UNK560	91560	2280	UNK
UNK561	91561	101	UNK
UNK566	91566	564	UNK
UNK568	91568	2500	UNK
UNK570	91570	398	CHLOROMETHYL PHENOL
UNK571	91571	48.4	CHLOROMETHYL PHENOL
UNK574	91574	242	UNK
UNK575	91575	53.0	AN ACID
UNK576	91576	195	METHYL SULFOXYL BENZENE
UNK578	91578	68.2	UNK
UNK579	91579	24.8	UNK
UNK586	91586	2320	UNK
UNK587	91587	1160	UNK
UNK588	91588	1160	UNK
UNK590	91590	1160	UNK
UNK591	91591	41.1	HEPTACHLORONOLBORENE
UNK594	91594	22.5	N-HEPTADECANE
UNK595	91595	36.7	UNK
UNK597	91597	9.90	UNK
UNK598	91598	32.7	TETRADECANOIC ACID
UNK606	91606	2060	UNK
UNK611	91611	427	UNK
UNK614	91614	1090	MOLECULAR SULFUR (S8)
UNK618	91618	567	ALCOHOL
UNK619	91619	66.3	UNK

UNK621	91621	44.8	UNK
UNK627	91627	76.0	AN AMIDE
UNK629	91629	29.7	UNK
UNK634	91634	111	UNK
UNK635	91635	19.7	PHTHALATE
UNK637	91637	12.3	UNK
UNK642	91642	834	UNK
UNK646	91646	15.9	UNK
UNK654	91654	33.3	OCTANOIC ACID
UNK656	91656	143	UNK
UNK669	91669	26.7	UNK
UNK672	91672	4450	UNK

PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	25	
DATE	09/23/86		
TIME	07:10		
UNK035	91035	5280	DIMETHYL SULFIDE
UNK043	91043	170	NO MATCH
UNK162	91162	295	SILOSANE
UNK175	91175	216	TRIMETHYLCYCLOHEXANE
UNK514	91514	464	TOLUENE
UNK523	91523	126	4-HYDROXY-4-METHYL-2-PENTANONE
UNK528	91528	5480	DMMP
UNK533	91533	924	POSSIBLY 2-METHYL-2,4-PENTANOL
UNK545	91545	126	POSSIBLY TRIMETHYLCYCLOHEXANONE
UNK554	91554	304	TRIETHYL ESTER OF PHOSPHORIC ACID
UNK557	91557	728	UNK
UNK561	91561	916	UNK
UNK562	91562	280	UNK
UNK564	91564	121	CAPROLACTAM
UNK566	91566	344	BICYCLO COMPOUND, POSSIBLY CHLOROMETHYL PHENOL
UNK569	91569	552	UNK
UNK578	91578	165	UNK
UNK582	91582	212	UNK
UNK584	91584	492	UNK
UNK586	91586	836	UNK, CYCLO COMPOUND
UNK587	91587	944	UNK, CYCLO COMPOUND
UNK602	91602	1460	SULFUR CONTAINING COMPOUND
UNK605	91605	297	UNK
UNK606	91606	680	UNK
UNK608	91608	748	UNK
UNK609	91609	792	UNK
UNK614	91614	944	MOLECULAR SULFUR
UNK615	91615	184	UNK
UNK618	91618	339	UNK
UNK619	91619	241	UNK
UNK621	91621	351	UNK
UNK622	91622	148	UNK
UNK636	91636	656	PHTHALATE
UNK642	91642	440	UNK
UNK671	91671	1010	UNK
UNK693	91693	560	UNK

PARAMETERS	STORET #	26066	TENTATIVE ID
UNITS	METHOD	14CC	
DATE	06/25/86	22	
TIME	09:25		
UNK041	91041	5.10	NO MATCH
UNK056	91056	12.6	THF
UNK080	91080	30.2	THIOPHENE
UNK129	91129	122	1,4-DITHIANE
UNK524	91524	10.6	CHLOROBENZENE
UNK551	91551	6.77	POSSIBLY BUTYLGLYCOLACETATE
UNK558	91558	15.6	POSSIBLY 1,3-DITHIOLANE-2-THION
UNK563	91563	24.9	UNK
UNK566	91566	344	CAPROLACTAM
UNK573	91573	21.7	3,5-DIMETHYL-1,2,4-TRITHIOLANE
UNK578	91578	11.1	UNK
UNK580	91580	13.7	A CHLOROHYDORCARBON
UNK608	91608	10.9	HEXADECANOIC ACID
UNK617	91617	10.9	OCTADECANOIC ACID
UNK635	91635	8.79	BIS(2-ETHYLHEXYL)PHTHALATE
UNK637	91637	11.1	UNK
UNK642	91642	265	UNK
UNK647	91647	10.5	UNK
UNK655	91655	6.33	UNK
UNK657	91657	12.3	UNK
UNK664	91664	8.32	UNK
UNK674	91674	1540	UNK

PARAMETERS	26073		
UNITS	STORET #	TRC	TENTATIVE ID
	METHOD	21	
DATE	06/26/86		
TIME	09:52		
UNK551	91551	5.57	POSSIBLY BUTYLGLYCOLACETATE
UNK567	91567	1560	CAPROLACTAM
UNK627	91627	7.52	AN AMIDE
UNK635	91635	6.05	A PHTHALATE
UNK637	91637	46.0	UNK
UNK642	91642	960	UNK
UNK657	91657	58.7	UNK
UNK666	91666	19.8	UNK
UNK667	91667	25.2	UNK
UNK668	91668	43.9	UNK
UNK675	91675	4690	UNK

PARAMETERS UNITS	STORET # METHOD	26083 06/23/86 14:52	T4CC 25	TENTATIVE ID
DATE				
TIME				
UNK517	91517	6.37		CYCLOPENTANONE
UNK530	91530	6.54		CYCLOHEXANONE
UNK532	91532	8.55		1,1,2,2-TETRACHLOROETHANE
UNK538	91538	10.1		UNK
UNK545	91545	6.37		ALIPHATIC HYDROCARBON
UNK546	91546	7.27		ALIPHATIC HYDROCARBON
UNK582	91582	23.3		N-PENTADECANE
UNK586	91586	17.6		ALIPHATIC HYDROCARBON
UNK588	91588	126		ALIPHATIC HYDROCARBON, N-HEXADECANE
UNK591	91591	73.6		ALIPHATIC HYDROCARBON
UNK592	91592	18.1		ALIPHATIC HYDROCARBON
UNK594	91594	280		N-HEPTADECANE, ALIPHATIC HYDROCARBON
UNK596	91596	37.2		ALIPHATIC HYDROCARBON
UNK597	91597	23.7		ALIPHATIC HYDROCARBON
UNK598	91598	8.60		ALIPHATIC HYDROCARBON
UNK600	91600	205		N-OCTADECANE, ALIPHATIC HYDROCARBON
UNK601	91601	8.57		ALIPHATIC HYDROCARBON
UNK602	91602	27.5		ALIPHATIC HYDROCARBON
UNK603	91603	53.0		ALIPHATIC HYDROCARBON
UNK605	91605	210		ALIPHATIC HYDROCARBON, N-NONADECANE
UNK607	91607	19.5		ALIPHATIC HYDROCARBON
UNK608	91608	28.1		ALIPHATIC HYDROCARBON
UNK610	91610	95.5		N-EICOSANE
UNK612	91612	20.0		ALKENE OR ALCOHOL
UNK614	91614	17.4		ALKENE OR ALCOHOL
UNK615	91615	32.2		N-HENEICOSANE
UNK621	91621	1080		ALKENE OR ALCOHOL, UNK
UNK635	91635	14.6		PHTHALATE AND HYDROCARBON
UNK642	91642	38.8		UNK
UNK646	91646	152		UNK
UNK659	91659	104		UNK
UNK663	91663	410		UNK
UNK668	91668	52.8		CHOLEST-3-ENE (c27h46)
UNK672	91672	14.6		UNK

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	26	
DATE	06/23/86		
TIME	13:57		
UNK056	91056	17.0	THF
UNK515	91515	13.2	TOLUENE
UNK517	91517	9.85	CYCLOPENTANONE
UNK562	91562	15.2	UNK
UNK575	91575	29.5	TETRADECANE
UNK576	91576	22.5	ALKENE OR ALCOHOL OR ACID
UNK578	91578	12.3	ALKENE OR ALCOHOL
UNK579	91579	19.3	ALIPHATIC HYDROCARBON
UNK582	91582	130	PENTADECANE
UNK585	91585	53.0	ALIPHATIC HYDROCARBON
UNK586	91586	47.8	ALIPHATIC HYDROCARBON
UNK588	91588	467	ALIPHATIC HYDROCARBON
UNK591	91591	128	ALIPHATIC HYDROCARBON
UNK592	91592	50.1	ALIPHATIC HYDROCARBON
UNK594	91594	843	HEPTADECANE, ALIPHATIC HYDROCARBON
UNK597	91597	56.5	ALIPHATIC HYDROCARBON
UNK598	91598	64.0	ALIPHATIC HYDROCARBON
UNK600	91600	726	OCTADECANE, ALIPHATIC HYDROCARBON
UNK602	91602	60.2	ALIPHATIC HYDROCARBON
UNK603	91603	123	ALIPHATIC HYDROCARBON
UNK605	91605	378	NONADECANE
UNK607	91607	18.3	ALIPHATIC HYDROCARBON
UNK608	91608	31.2	ALIPHATIC HYDROCARBON
UNK610	91610	227	EICOSANE
UNK612	91612	27.1	ALKENE OR ALCOHOL
UNK614	91614	33.6	ALIPHATIC HYDROCARBON
UNK615	91615	80.6	HENEICOSANE
UNK617	91617	25.2	ALIPHATIC HYDROCARBON
UNK620	91620	35.6	DOCOSANE
UNK623	91623	27.6	ALKENE OR ALCOHOL
UNK627	91627	14.6	ALKENE OR ALCOHOL
UNK642	91642	53.1	UNK
UNK662	91662	95.4	UNK
UNK674	91674	45.1	UNK

PARAMETERS	STRET #	T4CC	TENTATIVE ID
UNITS	METHOD	27	
DATE	06/26/86		
TIME	14:20		
UNK055	91055	5.60	NO MATCH
UNK553	91553	9.48	UNK
UNK558	91558	28.8	1,3-DITHIOLANE-2-THIONE
UNK560	91560	6.39	UNK
UNK561	91561	8.85	UNK
UNK566	91566	332	CAPROLACTAM
UNK573	91573	26.4	3,5-DIMETHYL-1,2,4-TRITHIOLANE
UNK574	91574	195	UNK
UNK578	91578	6.55	SULFUR COMPOUND
UNK581	91581	11.2	UNK
UNK582	91582	56.7	UNK
UNK585	91585	10.4	UNK
UNK589	91589	7.10	UNK
UNK608	91608	9.49	HEXADECANOIC ACID
UNK617	91617	24.2	ALKENE OR ALCOHOL
UNK624	91624	3940	UNK
UNK632	91632	11.2	PHthalate, BIS(2-ETHYLHEXYL)- PHthalate
UNK635	91635	26.0	PHthalate, BIS(2-ETHYLHEXYL)- PHthalate
UNK637	91637	47.2	UNK
UNK640	91640	10.2	PHthalate
UNK642	91642	245	UNK
UNK647	91647	14.1	UNK
UNK650	91650	8.71	PHthalate
UNK655	91655	9.27	PHthalate
UNK657	91657	19.9	UNK
UNK665	91665	972	UNK
UNK674	91674	1570	UNK
UNK685	91685	6.20	UNK

PARAMETERS UNITS	STORET # METHOD	26086 T4CC 28	TENTATIVE ID
DATE	06/24/86		
TIME	13:55		
UNK055	91055	167	THF
UNK517	91517	12.2	CYCLOPENTANONE
UNK518	91518	10.7	HEXANOL
UNK547	91547	14.7	UNK
UNK558	91558	9.66	1,3-DITHIOLANE-2-THIONE
UNK563	91563	56.0	UNK
UNK572	91572	104	UNK
UNK577	91577	92.9	UNK
UNK582	91582	74.6	PENTADECANE
UNK586	91586	38.0	ALIPHATIC HYDROCARBON, DODECANOIC ACID
UNK588	91588	368	HEXADECANE
UNK591	91591	132	ALIPHATIC HYDROCARBON
UNK592	91592	35.8	ALIPHATIC HYDROCARBON
UNK594	91594	563	HEPTADECANE
UNK596	91596	58.5	ALIPHATIC HYDROCARBON
UNK597	91597	36.2	ALIPHATIC HYDROCARBON
UNK598	91598	113	ALIPHATIC HYDROCARBON, TETRADECANOIC ACID
UNK600	91600	581	OCTADECANE, ALIPHATIC HYDRO- CARBON
UNK602	91602	59.7	ALIPHATIC HYDROCARBON
UNK603	91603	115	ALIPHATIC HYDROCARBON
UNK605	91605	369	ALIPHATIC HYDROCARBON, NONADECANE
UNK608	91608	358	ALKENE OR ALCOHOL
UNK610	91610	213	EICOSANE
UNK612	91612	16.8	ALKENE OR ALCOHOL
UNK614	91614	81.5	ALKENE OR ALCOHOL
UNK615	91615	91.1	HENEICOSANE
UNK618	91618	1430	ALKENE OR ALCOHOL
UNK619	91619	97.1	OCTADECANOIC ACID, ALKENE
UNK620	91620	53.0	DOCOSANE
UNK628	91628	18.8	ALKENE OR ALCOHOL
UNK632	91632	35.3	PHTHALATE
UNK635	91635	64.7	PHTHALATE
UNK640	91640	57.5	PHTHALATE
UNK641	91641	12.9	ALKENE
UNK642	91642	117	UNK
UNK643	91643	55.8	PHTHALATE
UNK650	91650	28.6	PHTHALATE
UNK651	91651	10.1	PHTHALATE
UNK655	91655	69.9	PHTHALATE
UNK671	91671	9.67	OIL, C15 TO C30

PARAMETERS	26127		
UNITS	STORET #	T4CC	TENTATIVE ID
	METHOD	29	
DATE	06/26/86		
TIME	12:58		
UNK056	91056	7.43	THF
UNK129	91129	124	1,4-DITHIANE
UNK517	91517	8.90	CYCLOPENTANONE
UNK558	91558	7.32	POSSIBLY 1,3-DITHIOLANE-2- THIONE
UNK563	91563	25.2	UNK
UNK573	91573	9.57	3,5-DIMETHYL-1,2,4-TRITHIOLANE
UNK574	91574	12.5	UNK
UNK575	91575	16.8	N-TETRADECANE
UNK578	91578	10.0	ALKENE OR ALCOHOL
UNK579	91579	13.7	ALKANE
UNK582	91582	82.4	N-PENTADECANE, UNK
UNK585	91585	45.2	ALIPHATIC HYDROCARBON, ALKENE OR ALCOHOL
UNK586	91586	31.8	ALKANE, ALKENE
UNK587	91587	15.0	ALKENE
UNK588	91588	275	ALKANE
UNK591	91591	119	ALKANE, 2,6,10-TRIMETHYL- PENTADECANE, ALKENE
UNK592	91592	27.0	ALIPHATIC HYDROCARBON
UNK594	91594	412	N-HEPTADECANE, 2,6,10-TETRA- METHYLPENTANONE
UNK596	91596	43.4	ALKANE OR ALKENE
UNK597	91597	37.0	ALKENE
UNK598	91598	9.22	ALKENE
UNK600	91600	297	N-OCTADECANE, 2,6,10,14-TETRA- METHYLHEXADECANOIC ACID
UNK602	91602	19.9	ALKANE
UNK603	91603	57.9	ALKENE OR ALCOHOL
UNK605	91605	208	ALKANE
UNK608	91608	14.8	ALKENE OR ALCOHOL
UNK610	91610	85.3	ALKENE
UNK614	91614	18.0	ALKENE
UNK615	91615	28.3	ALKENE
UNK621	91621	17.8	ALKENE
UNK627	91627	9.27	ALKENE OR ALCOHOL
UNK628	91628	13.0	ALKENE OR ALCOHOL
UNK642	91642	33.5	UNK
UNK663	91663	314	UNK

		26127	
PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	26	
DATE	09/29/86		
TIME	10:20		
UNK055	91055	*BK0	UNK
UNK089	91089	*OK5.50	CYCLOPENTANONE
UNK129	91129	*OK6.40	NO MATCH
UNK174	91174	*BK0	UNK
UNK563	91563	14.2	UNK
UNK573	91573	7.13	SULFER CONTAINING COMPOUND
UNK574	91574	11.0	POSSIBLY METHOXY BENZALDEHYDE
UNK582	91582	7.27	UNK
UNK642	91642	16.9	UNK

PARAMETERS	STRET #	T4CC	TENTATIVE ID
UNITS	METHOD	30	
DATE	06/24/86		
TIME	13:34		
UNK055	91055	2180	THF
UNK059	91059	8.30	THF
UNK129	91129	30.5	NO MATCH
UNK563	91563	17.3	UNK
UNK573	91573	7.22	3,5-DIMETHYL-1,2,4-TRITHIOLANE
UNK574	91574	15.9	UNK
UNK582	91582	7.08	UNK
UNK608	91608	644	MOLECULAR SULFUR (S8)
UNK617	91617	7.40	UNSATURATED ACID
UNK626	91626	12.2	UNK
UNK627	91627	6.35	UNK
UNK630	91630	25.7	BENZAMINE, 4-(METHYL-SULFOXYL)- 2,6-DINITRO-N,N-DIPROPYL- PHTHALATE
UNK632	91632	10.5	PHTHALATE
UNK635	91635	31.5	PHTHALATE, BIS(2-ETHYLHEXYL)- PHTHALATE
UNK637	91637	14.0	UNK
UNK639	91639	6.93	UNK
UNK640	91640	22.9	PHTHALATE
UNK642	91642	73.9	UNK
UNK643	91643	33.9	PHTHALATE
UNK650	91650	14.7	PHTHALATE
UNK651	91651	6.23	PHTHALATE
UNK655	91655	33.0	PHTHALATE
UNK671	91671	11.0	PHTHALATE

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	31	
DATE	06/27/86		
TIME	09:06		
UNK162	91162	567	NOT FOUND
UNK515	91515	366	TOLUENE
UNK519	91519	351	TETRACHLOROETHENE
UNK523	91523	154	POSSILBY 4-HYDROXY-4-METHYL- 2-PENTANONE
UNK527	91527	53.9	XYLENE
UNK528	91528	318	DMMP
UNK530	91530	46.4	XYLENE
UNK535	91535	56.7	UNK
UNK536	91536	32.2	UNK
UNK539	91539	84.2	TRICYCLO[2,2,1.02,6]-HEPTAN-3-OL
UNK540	91540	29.5	TRIMETHYL ESTER OF PHOSPHORO- THIOIC ACID
UNK541	91541	41.8	UNK
UNK544	91544	22.5	UNK
UNK548	91548	168	UNK
UNK551	91551	125	UNK
UNK552	91552	54.3	UNK
UNK553	91553	114	UNK
UNK554	91554	57.7	UNK
UNK555	91555	178	UNK
UNK558	91558	117	UNK
UNK559	91559	40.9	UNK
UNK562	91562	74.9	HEXACHLOROBUTADIENE
UNK563	91563	27.3	POSSIBLY N,N'-BIS(1-METHYL- ETHYL)-UREA
UNK565	91565	106	CAPROLACTAM
UNK568	91568	26.5	CPMS ISOMER
UNK570	91570	43.1	UNK
UNK571	91571	75.8	UNK
UNK572	91572	24.0	UNK
UNK573	91573	172	UNK
UNK575	91575	27.0	METHYLSULFOXYLBENZENE
UNK576	91576	44.6	2,3-DICHLORO-2-METHYLBENZYL ALCOHOL
UNK577	91577	74.2	UNK
UNK579	91579	434	UNK
UNK580	91580	204	UNK
UNK584	91584	54.8	UNK
UNK589	91589	38.6	UNK
UNK591	91591	37.2	HEPTACHLOROBICYCLOHEPT-2-ENE
UNK602	91602	63.2	UNK
UNK605	91605	34.5	UNK
UNK606	91606	35.3	UNK
UNK608	91608	114	UNK
UNK609	91609	26.8	UNK
UNK642	91642	96.8	UNK
UNK672	91672	257	UNK

UNK694

91694

113

UNK

PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	27	
DATE	09/19/86		
TIME	12:07		
UNK514	91514	173	TOLUENE
UNK518	91518	215	TETRACHLOROETHANE
UNK523	91523	59.9	4-HYDROXY-4-METHYL-2-PENTANONE
UNK526	91526	25.7	XYLENE
UNK528	91528	148	DMMP
UNK529	91529	28.0	XYLENE
UNK535	91535	23.4	POSSIBLY A BICYCLIC COMPOUND
UNK539	91539	35.9	POSSIBLY TRICYCLO[2,2,1,02,6]- HEPTAN-3-OL (c7h10o)
UNK540	91540	34.9	UNK
UNK547	91547	86.4	UNK
UNK551	91551	48.9	UNK
UNK552	91552	37.5	UNK
UNK553	91553	78.7	UNK
UNK554	91554	24.4	UNK
UNK555	91555	94.1	UNK
UNK557	91557	37.8	UNK
UNK558	91558	49.3	UNK
UNK562	91562	92.2	HEXACHLOROBUTADIENE
UNK563	91563	25.0	UNK
UNK565	91565	142	CAPROLACTAM
UNK569	91569	33.9	UNK
UNK570	91570	57.9	UNK
UNK571	91571	30.7	UNK
UNK573	91573	110	UNK
UNK577	91577	54.1	UNK
UNK579	91579	318	UNK
UNK580	91580	97.6	UNK
UNK582	91582	21.6	UNK
UNK584	91584	75.3	UNK
UNK587	91587	118	UNK
UNK589	91589	38.9	UNK
UNK591	91591	78.4	1,2,3,4,5,7,7-HEPTACHLORO- BICYCLO[2,2,1]HEPT-2-ENE
UNK596	91596	29.9	TETRACHLORINATED COMPOUND
UNK602	91602	27.3	UNK
UNK606	91606	88.3	UNK
UNK608	91608	76.6	UNK
UNK609	91609	30.1	POSSIBLY METHYLESTER OF DIHYDROXYBENZOIC ACID
UNK610	91610	28.7	UNK
UNK614	91614	203	MOLECULAR SULFUR (S8)
UNK621	91621	27.4	UNK
UNK642	91642	119	UNK
UNK653	91653	724	UNK
UNK670	91670	188	UNK
UNK692	91692	155	UNK

PARAMETERS	26140		TENTATIVE ID
UNITS	STORET #	T4CC	
	METHOD	32	
DATE	06/24/86		
TIME	08:52		
UNK055	91055	126	THF
UNK129	91129	5.33	NO MATCH
UNK532	91532	7.04	1,1,2,2-TETRACHLOROETHANE
UNK631	91631	13.0	PHTHALATE
UNK632	91632	42.6	PHTHALATE
UNK635	91635	112	BIS(2-ETHYLHEXYL)PHTHALATE, PHTHALATE
UNK637	91637	19.8	PHTHALATE
UNK638	91638	11.5	PHTHALATE
UNK640	91640	92.6	PHTHALATE
UNK642	91642	42.5	UNK
UNK643	91643	249	PHTHALATE
UNK646	91646	17.2	PHTHALATE
UNK647	91647	8.79	PHTHALATE
UNK648	91648	12.4	PHTHALATE
UNK650	91650	72.9	PHTHALATE
UNK651	91651	29.2	PHTHALATE
UNK655	91655	149	PHTHALATE
UNK663	91663	16.2	PHTHALATE
UNK664	91664	18.1	PHTHALATE
UNK671	91671	44.5	PHTHALATE

		26142	
PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	28	
DATE	09/24/86		
TIME	07:48		
UNK037	91037	12.5	NO MATCH
UNK055	91055	172	THF
UNK566	91566	408	*
UNK618	91618	21.5	*
UNK622	91622	229	
UNK637	91637	6.84	
UNK638	91638	97.3	
UNK642	91642	892	
UNK672	91672	4770	
UNK694	91694	3830	

		27016	
PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	29	
DATE	09/26/86		
TIME	08:22		
UNK582	91582	11.9	*
UNK585	91585	7.49	
UNK627	91627	7.63	*
UNK642	91642	6.89	
UNK651	91651	907	

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	33	
DATE	06/19/86		
TIME	09:15		
UNK055	91055	334	THF
UNK064	91064	75.4	NO MATCH
UNK517	91517	17.2	CYCLOPENTANONE
UNK532	91532	10.8	1,1,2,2-TETRACHLOROETHANE
UNK558	91558	7.58	SULFUR COMPOUND
UNK562	91562	14.1	UNK
UNK573	91573	6.60	UNK
UNK576	91576	18.6	UNK
UNK582	91582	17.1	UNK
UNK585	91585	38.2	UNK
UNK588	91588	10.0	POSSIBLY TETRADECANOL
UNK591	91591	10.1	2,6,10-TRIMETHYLPENTADECANE
UNK594	91594	35.2	2,6,10,14-TETRAMETHYLPENTA- DECANE, HEPTADECANE
UNK600	91600	16.1	2,6,10,14-TETRAMETHYLHEXADECANE
UNK605	91605	16.4	NONADECANE
UNK627	91627	22.4	UNK
UNK642	91642	7.62	UNK

PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	30	
DATE	09/19/86		
TIME	08:52		
UNK565	91565	362	CAPROLACTAM
UNK642	91642	585	UNK
UNK671	91671	2050	UNK
UNK693	91693	1390	UNK

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	34	
DATE	06/12/86		
TIME	10:52		
UNK517	91517	71.4	DEHYDROPYRAN
UNK532	91532	67.1	1,1,2,2-TETRACHLOROETHANE
UNK585	91585	156	UNK
UNK591	91591	85.0	2,6,10-TRIMETHYLPENTADECANE
UNK594	91594	219	2,6,10,14-TETRAMETHYLPENTA- DECANE
UNK600	91600	187	2,6,10,14-TETRAMETHYLHEXA- DECANE
UNK604	91604	81.2	C19 ALKANE OR ALKENE
UNK614	91614	52.8	C21 ALKENE
UNK627	91627	114	POSSIBLY CHLORINATED COMPOUND (5 cl)
UNK650	91650	358	UNK
UNK664	91664	81.9	UNK

PARAMETERS	28025	TENTATIVE ID
UNITS	STORET #	T4CC
	METHOD	35
DATE	06/19/86	
TIME	14:35	
UNK037	91037 4.80	NO MATCH
UNK056	91056 18.0	THF
UNK517	91517 5.38	CYCLOPENTANONE
UNK586	91586 6.48	DODECANOIC ACID
UNK598	91598 11.2	TETRADECANOIC ACID
UNK608	91608 15.5	HEXADECANOIC ACID
UNK617	91617 98.6	OCTADECANOIC ACID
UNK627	91627 50.1	OCTADECENAMIDE
UNK628	91628 19.8	OCTADECANAMIDE
UNK642	91642 251	UNK
UNK644	91644 13.0	UNK
UNK645	91645 36.8	UNK
UNK656	91656 6.78	UNK
UNK657	91657 67.9	UNK
UNK675	91675 105	UNK

PARAMETERS	UNITS	33026 STORET * METHOD	T4WC2 2	TENTATIVE ID
DATE		08/28/86		
TIME		13:53		
UNK534		91534	8.63	2-CYCLOHEXEN-1-ONE
UNK582		91582	7.09	ALIPHATIC HYDROCARBON
UNK591		91591	7.49	ALIPHATIC HYDROCARBON
UNK594		91594	30.8	N-HEPTADECANE
UNK595		91595	13.0	ALIPHATIC HYDROCARBON
UNK600		91600	28.3	N-OCTADECANE
UNK601		91601	9.67	2,6,10,14-TETRAMETHYLHEXA- DECANE
UNK605		91605	21.5	N-NONADECANE
UNK611		91611	10.9	N-EICOSANE
UNK636		91636	25.4	BIS(2-ETHYLHEXYL)PHTHALATE

		33030	
PARAMETERS	STORET #	T4WC2	TENTATIVE ID
UNITS	METHOD	3	
DATE	09/04/86		
TIME	09:40		
UNK632	91632	9.17	UNK
UNK633	91633	8.62	UNK
UNK653	91653	419	UNK

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	36	
DATE	06/11/86		
TIME	16:18		
UNK080	91080	27.4	THIOPHENE
UNK129	91129	133	1,4-DITHIANE
UNK524	91524	40.1	CHLOROBENZENE
UNK540	91540	31.1	1,3-DITHIOLANE
UNK541	91541	8.65	UNK
UNK558	91558	9.03	SULFUR COMPOUND
UNK563	91563	63.8	UNK
UNK573	91573	50.1	3,5-DIMETHYL-1,2,4-TRITHIOLANE
UNK575	91575	17.7	N-TETRADECANE
UNK578	91578	20.9	UNK
UNK579	91579	13.5	C15 ALKANE
UNK582	91582	90.0	N-PENTADECANE
UNK585	91585	9.88	C16 ALKANE
UNK586	91586	17.5	C16 ALKENE
UNK587	91587	19.6	C16 ALKENE OR ALKYNE
UNK588	91588	265	N-HEXADECANE
UNK591	91591	89.0	2,6,10-TRIMETHYLPENTADECANE
UNK592	91592	14.2	C17 ALKENE
UNK594	91594	437	N-HEPTADECANE
UNK596	91596	33.1	C18 ALKANE
UNK597	91597	25.1	C18 ALKENE
UNK598	91598	9.35	C18 ALKENE
UNK600	91600	452	N-OCTADECANE, 2,6,10,14-TETRA-METHYLHEXADECANE
UNK602	91602	15.0	C19 ALKENE
UNK603	91603	40.3	C19 ALKENE
UNK605	91605	193	N-NONADECANE
UNK608	91608	8.87	C20 ALKENE
UNK610	91610	115	N-EICOSANE
UNK614	91614	8.26	C21 ALKENE
UNK615	91615	25.9	N-HENEICOSANE
UNK617	91617	12.1	C22 ALKENE
UNK620	91620	11.5	N-DOCOSANE, C22 ALKENE
UNK642	91642	90.7	UNK
UNK649	91649	240	UNK

PARAMETERS		35013		TENTATIVE ID
UNITS	STORET #	T4CC		
	METHOD	37		
DATE	06/12/86			
TIME	14:21			
UNK037	91037	2.90		NO MATCH
UNK048	91048	10.8		1,2-DICHLOROETHANE
UNK055	91055	2.80		TETRAHYDROFURAN
UNK575	91575	5.48		N-TETRADECANE
UNK579	91579	6.32		C15 ALKANE
UNK582	91582	20.3		N-PENTADECANE
UNK583	91583	8.59		BIPHENYL-OL
UNK585	91585	7.08		C16 ALKENE
UNK586	91586	5.92		C16 ALKENE
UNK587	91587	7.24		C16 ALKENE
UNK588	91588	24.0		N-HEXADECANE
UNK591	91591	46.1		C17 ALKANE, 2,6,10-TRIMETHYL- PENTADECANE
UNK594	91594	120		N-HEPTADECANE, 2,6,10,14-TETRA- METHYLPENTADECANE
UNK596	91596	19.0		C18 ALKANE
UNK597	91597	15.5		C17 OR C18 ALKENE
UNK599	91599	95.0		N-OCTADECANE
UNK600	91600	46.4		2,6,10,14-TETRAMETHYLHEXA- DECANE
UNK601	91601	5.80		C19 ALKENE
UNK602	91602	16.4		C19 ALKENE
UNK603	91603	17.2		C18 , C19 ALKENE
UNK604	91604	16.2		C17 ALKENE
UNK605	91605	60.8		N-NONADECANE
UNK610	91610	34.1		N-EICOSANE
UNK614	91614	16.8		C20 OR C21 ALKENE
UNK615	91615	10.4		N-HENEICOSANE
UNK616	91616	8.05		C21 ALKENE
UNK617	91617	7.98		C21 ALKENE
UNK621	91621	9.39		C22 OR C23 ALKENE OR ALKANE
UNK642	91642	8.29		UNK
UNK649	91649	134		UNK
UNK670	91670	368		UNK

PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	32	
DATE	09/05/86		
TIME	12:30		
UNK515	91515	15.7	1,1,2-TRICHLOROETHANE
UNK531	91531	22.8	1,1,2,2-TETRACHLOROETHANE
UNK564	91564	302	CAPROLACTAM
UNK638	91638	6.71	UNK
UNK642	91642	298	UNK
UNK653	91653	431	UNK
UNK671	91671	1480	UNK
UNK693	91693	928	UNK

PARAMETERS	35038	TENTATIVE ID
UNITS	STORET # T4CC2	
	METHOD 33	
DATE	09/05/86	
TIME	13:31	
UNK057	91057 116	THF
UNK589	91589 601	HEXADECANE
UNK652	91652 65.7	UNK

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	38	
DATE	06/25/86		
TIME	12:01		
UNK036	91036	5.20	NO MATCH
UNK064	91064	22.4	FREON
UNK123	91123	7.20	NO MATCH
UNK532	91532	10.4	1,1,2,2-TETRACHLOROETHANE
UNK557	91557	7.88	UNK
UNK560	91560	6.93	UNK
UNK562	91562	6.35	UNK
UNK565	91565	7.28	UNK
UNK567	91567	13.1	UNK
UNK570	91570	44.4	POSSIBLY ALPHA-METHYLBENZYL-AMINE
UNK571	91571	6.76	UNK
UNK575	91575	9.48	POSSIBLY N,N-DIMETHYLBENZYL-AMINE
UNK576	91576	6.76	UNK
UNK583	91583	7.39	UNK
UNK585	91585	6.51	UNK
UNK592	91592	6.66	UNK
UNK593	91593	13.1	UNK
UNK608	91608	6.02	HEXADECANOIC ACID
UNK617	91617	13.1	OCTADECENOIC ACID
UNK628	91628	12.1	OCTADECANAMIDE
UNK635	91635	6.05	BIS(2-ETHYLHEXYL)PHTHALATE
UNK642	91642	60.3	UNK
UNK645	91645	7.32	UNK
UNK660	91660	90.2	UNK
UNK674	91674	29.9	UNK

		35058	
PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	34	
DATE	09/08/86		
TIME	10:18		
UNK564	91564	44.7	CAPROLACTAM
UNK642	91642	64.2	UNK
UNK671	91671	122	UNK
UNK693	91693	51.3	UNK

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	39	
DATE	06/30/86		
TIME	09:48		
UNK519	91519	14.3	TETRACHLOROETHANE
UNK524	91524	8.46	CHLOROBENZENE
UNK525	91525	9.62	HEPTANONE
UNK541	91541	19.2	UNK
UNK553	91553	7.95	POSSIBLY 2,4-IMIDAZOLIDINE-DIONE
UNK555	91555	12.0	UNK
UNK558	91558	26.8	1,3-DITHIOLANE-2-THIONE
UNK560	91560	6.63	UNK
UNK564	91564	1200	CAPROLACTAM
UNK566	91566	20.6	UNK
UNK568	91568	21.9	UNK
UNK570	91570	10.5	UNK
UNK572	91572	15.3	N,N-DIBUTYLACETAMIDE
UNK573	91573	89.8	UNK
UNK574	91574	19.5	UNK
UNK575	91575	17.2	METHYLSULFOXYLBENZENE
UNK578	91578	89.1	SULFUR COMPOUND
UNK579	91579	63.1	ISOPROPYLBENZYLALDEHYDE
UNK580	91580	43.6	UNK
UNK581	91581	7.59	UNK
UNK582	91582	68.5	UNK
UNK583	91583	9.73	UNK
UNK585	91585	207	UNK
UNK586	91586	36.7	UNK
UNK589	91589	99.8	PROPANOIC ACID, 2-METHYL-1-BUTYL-2-ONE
UNK594	91594	8.90	UNK
UNK595	91595	8.05	UNK
UNK596	91596	8.03	UNK
UNK597	91597	7.84	UNK
UNK603	91603	6.38	UNK
UNK620	91620	7.25	BUTYLHEXADECANOATE
UNK627	91627	6.67	UNK
UNK628	91628	7.67	BUTYL OCTADECANOATE
UNK635	91635	23.1	BIS(2-ETHYLHEXYL)PHTHALATE
UNK642	91642	30.0	UNK
UNK672	91672	103	UNK
UNK694	91694	54.3	UNK

PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	36	
DATE	09/08/86		
TIME	11:17		
UNK055	91055	*OK21.8	THF
UNK541	91541	6.70	UNK
UNK564	91564	400	UNK
UNK565	91565	89.0	CAPROLACTAM
UNK573	91573	34.7	UNK
UNK578	91578	45.2	UNK
UNK580	91580	18.8	UNK
UNK581	91581	7.46	UNK
UNK582	91582	27.8	UNK
UNK585	91585	60.5	UNK
UNK642	91642	104	UNK
UNK672	91672	712	UNK
UNK693	91693	482	UNK

PARAMETERS UNITS	STORET # METHOD	36001 T4CC 40	TENTATIVE ID
DATE	06/23/86		
TIME	14:09		
UNK122	91122	1680	3 METHYLHEXANE
UNK161	91161	547	METHYLETHYL BENZENE
UNK193	91193	55400	DICHLOROBENZENE
UNK513	91513	2740	HEXANONE
UNK514	91514	44.8	HEXANOL
UNK515	91515	348	TOLUENE
UNK519	91519	90.2	TETRACHLOROETHANE
UNK525	91525	7900	CHLOROBENZENE
UNK527	91527	488	XYLENE
UNK528	91528	1060	XYLENE
UNK529	91529	35.9	2,2,2-TRICHLOROETHANOL
UNK530	91530	802	XYLENE
UNK534	91534	108	ISOPROPYLBENZENE
UNK535	91535	35.5	1,1-BIS(METHYLTHIO)ETHANE
UNK537	91537	26.9	PROPYLBENZENE
UNK538	91538	41.6	ETHYL,METHYL BENZENE
UNK539	91539	26.2	TRIMETHYLBENZENE, POSSIBLY DIMETHYLHEPTANONE
UNK540	91540	25.3	POSSIBLY METHYLTHIO-1-BUTANONE
UNK544	91544	3030	DICHLOROBENZENE
UNK547	91547	2620	DICHLOROBENZENE
UNK549	91549	142	AACETOPHENONE, UNK
UNK554	91554	20.5	UNK
UNK555	91555	18.5	UNK
UNK559	91559	249	TRICHLOROBENZENE, NAPTHALENE
UNK562	91562	85.3	TRICHLOROBENZENE, HEXACHLORO- BUTADIENE
UNK563	91563	12.2	UNK
UNK565	91565	37.1	CAPROLACTAM
UNK570	91570	12.6	UNK
UNK572	91572	13.5	UNK
UNK573	91573	105	UNK
UNK574	91574	19.3	TETRACHLOROBENZENE
UNK576	91576	17.4	DIPHENYL ETHER
UNK580	91580	14.1	UNK
UNK581	91581	114	HEXACHLOROBICYCLO[2,2,1] HEPTA-2-ONE
UNK588	91588	31.9	HEXADECANE
UNK589	91589	173	UNK
UNK591	91591	51.1	HEPTACHLORO-BICYCLO[2,2,1] HEPTANE
UNK594	91594	50.6	HEPTADECANE, 2,6,10,14-TETRA- METHYLPENTADECANE
UNK600	91600	19.1	2,6,10,14-TETRAMETHYLHEXA- DECANE
UNK605	91605	30.8	NONADECANE
UNK610	91610	19.3	EICOSANE
UNK627	91627	13.0	HEXACHLORO COMPOUND

UNK632
UNK635

91632 26.3
91635 13.5

CHLORINATED COMPOUND
BIS(2-ETHYLHEXYL)PHTHALATE

PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	37	
DATE	09/26/86		
TIME	11:41		
UNK055	91055	*OK39.7	UNK
UNK089	91089	*BK0	
UNK129	91129	*BK0	
UNK174	91174	*BK0	

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	41	
DATE	06/25/86		
TIME	14:24		
UNK193	91193	153000	DICHLOROBENZENE
UNK513	91513	20.3	4-METHYL-2-PENTANONE
UNK525	91525	6320	CHLOROBENZENE
UNK530	91530	11.3	UNK
UNK540	91540	8.77	BICYCLO[2,2,1]HEPT-2-EN-7-OL
UNK544	91544	6490	DICHLOROBENZENE
UNK547	91547	5840	1,2-DICHLOROBENZENE
UNK548	91548	9.10	UNK
UNK549	91549	22.2	ACETOPHENONE
UNK550	91550	14.3	N-NITROSODIPROPYLAMINE
UNK553	91553	11.1	UNK
UNK558	91558	12.6	N-HEXYLACETAMIDE
UNK559	91559	145	TRICHLOROBENZENE, TRICHLORO-CYCLOPENTANE
UNK560	91560	11.9	M-MENTHA-4,8-DIENE
UNK562	91562	35.0	TRICHLOROBENZENE
UNK566	91566	675	CAPROLACTAM
UNK569	91569	25.9	UNK
UNK570	91570	8.29	UNK
UNK573	91573	21.1	3,5-DIMETHYL-1,2,4-TRITHIOLANE
UNK575	91575	8.63	METHYLSULFOXYL BENZENE
UNK576	91576	8.71	DIPHENYL ETHER
UNK578	91578	8.76	UNK
UNK581	91581	11.4	UNK
UNK582	91582	9.51	1-(4-HYDROXY-3-METHOXYPHENYL)-ETHANONE
UNK586	91586	16.2	TETRACHLOROPHENOL
UNK598	91598	65.1	PENTACHLOROPHENOL
UNK 77	91607	12.1	A CHLORO-METHYLSULFOXYLAMIDE
UNK608	91608	14.8	HEXADECANOIC ACID
UNK610	91610	10.5	TRICHLORO COMPOUND
UNK617	91617	9.52	OCTADECANOIC ACID
UNK619	91619	34.6	PENTACHLORO COMPOUND
UNK624	91624	288	UNK
UNK627	91627	151	AN AMIDE
UNK642	91642	80.8	UNK
UNK657	91657	12.3	UNK
UNK666	91666	8.84	UNK
UNK668	91668	10.2	UNK
UNK674	91674	943	UNK

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	42	
DATE	06/27/86		
TIME	10:02		
UNK530	91530	5.95	XYLENE
UNK539	91539	11.8	1,3-DITHIOLANE
UNK542	91542	16.7	UNK
UNK552	91552	5.91	UNK
UNK555	91555	15.9	UNK
UNK557	91557	11.9	1,3-DITHIOLANE-2-THIONE
UNK563	91563	1010	UNK
UNK570	91570	11.9	UNK
UNK572	91572	11.3	UNK
UNK573	91573	99.5	UNK
UNK574	91574	69.8	UNK
UNK578	91578	84.2	UNK
UNK580	91580	8.47	UNK
UNK581	91581	15.0	UNK
UNK582	91582	37.8	UNK
UNK596	91596	7.86	POSSIBLY AZIDOBENZENE OR HYDROXY BENZENE
UNK597	91597	8.32	UNK
UNK603	91603	6.06	UNK
UNK606	91606	6.95	UNK
UNK608	91608	7.09	HEXADECANOIC ACID
UNK609	91609	26.5	UNK
UNK620	91620	5.80	BUTYL OCTADECANOATE
UNK628	91628	7.85	DODECANAMIDE
UNK642	91642	8.20	UNK

PARAMETERS	STORET #	T4CC2	TENTATIVE ID
UNITS	METHOD	39	
DATE	09/26/86		
TIME	10:45		
UNK055	91055	*BK0	
UNK089	91089	*BK0	
UNK129	91129	*BK0	
UNK174	91174	*OK7.70	XYLENE
UNK539	91539	7.61	*
UNK541	91541	13.2	
UNK554	91554	10.7	
UNK557	91557	9.03	
UNK565	91565	768	
UNK566	91566	5.79	
UNK570	91570	5.74	
UNK573	91573	102	
UNK574	91574	31.1	
UNK578	91578	155	
UNK580	91580	7.91	
UNK581	91581	18.5	
UNK582	91582	41.3	
UNK585	91585	36.7	
UNK597	91597	18.8	
UNK603	91603	7.52	*
UNK604	91604	6.75	
UNK607	91607	12.1	
UNK609	91609	32.6	

PARAMETERS	STORET #	T4CC	TENTATIVE ID
UNITS	METHOD	43	
DATE	06/30/86		
TIME	08:52		
UNK049	91049	4.30	NO MATCH
UNK080	91080	58.5	THIOPHENE
UNK129	91129	240	NO MATCH
UNK532	91532	6.42	1,1,2,2-TETRACHLOROETHANE
UNK539	91539	13.2	1,3-DIETHIOLANE
UNK540	91540	35.8	UNK
UNK547	91547	13.4	UNK
UNK550	91550	7.87	1,3,6-DIOXATHIOLANE
UNK552	91552	17.4	UNK
UNK554	91554	6.81	UNK
UNK557	91557	16.2	1,3-DITHIOLANE-2-THIONE
UNK563	91563	170	UNK
UNK564	91564	13.6	CAPROLACTAM
UNK573	91573	70.8	3,5-DIMETHYL-1,2,4-TRITHIONE
UNK577	91577	27.3	UNK
UNK580	91580	6.17	UNK
UNK582	91582	23.0	UNK
UNK586	91586	49.2	DODECANOIC ACID
UNK588	91588	22.6	N-HEXADECANE
UNK591	91591	10.1	ALKANE
UNK594	91594	37.8	N-HEPTADECANE
UNK595	91595	13.7	2,6,10,14-TETRAMETHYLPENTA-DECANE
UNK597	91597	6.97	ALIPHATIC HYDROCARBON
UNK598	91598	18.6	TETRADECANOIC ACID, ALKENE OR ALCOHOL
UNK600	91600	34.3	N-OCTADECANE
UNK601	91601	13.9	2,6,10,14-TETRAMETHYLHEXADECANE
UNK605	91605	28.9	N-NONADECANE
UNK608	91608	11.2	HEXADECANOIC ACID
UNK611	91611	17.6	N-EICOSANE
UNK614	91614	21.9	MOLECULAR SULFUR (S8)
UNK615	91615	7.28	N-HENEICOSANE
UNK617	91617	54.5	ALCOHOL, OCTADECANOIC ACID
UNK620	91620	10.2	ACID OR ALCOHOL
UNK628	91628	10.3	POSSIBLY OCTADECANETHOIL
UNK632	91632	11.0	DIHEPTYLPHTHALATE
UNK635	91635	30.1	PHTHALATE, BIS(2-ETHYLHEXYL)-PHTHALATE
UNK640	91640	15.2	PHTHALATE
UNK642	91642	13.9	UNK
UNK649	91649	11.9	PHTHALATE
UNK654	91654	28.1	PHTHALATE
UNK669	91669	8.85	PHTHALATE

TASK 44 GC/MS NONTARGET DATA 3RD QUARTER FY1987

PARAMETERS		01008	
UNITS	STORET #	T44GMS3	TENTATIVE ID
	METHOD	1	
DATE	05/05/87		
TIME	10:13		
UNK565	91565	350	CAPROLACTAM
	0		
UNK588	91588	9	2-METHYL, 1-(1,1-DIMETHYLETHYL)-
	0		2-METHYL-1,3-PROPANEDIYL PROPIONATE

PARAMETERS	02008		TENTATIVE ID
UNITS	STORET #	T44GMS3	
	METHOD	2	
DATE	05/05/87		
TIME	13:19		
UNK588	91588	7	2-METHYL, 1-(1,1-DIMETHYLETHYL)-
UG/L	0		2-METHYL-1,3-PROPANEDIYL PROPIONATE

PARAMETERS		04009		TENTATIVE ID
UNITS	STORET #	T44GMS3		
	METHOD	3		
DATE	05/06/87			
TIME	07:36			
UNK525	91525	15.5	ETHYLBENZENE	
UG/L	0			
UNK526	91526	76.4	XYLENE	
UG/L	0			
UNK529	91529	35.6	XYLENE (ISOMER OF UNK 526)	
UG/L	0			
UNK536	91536	27.1	PROPYLBENZENE	
UG/L	0			
UNK537	91537	100	ETHYL, METHYL BENZENE	
UG/L	0			
UNK538	91538	48.1	TRIMETHYL BENZENE	
UG/L	0			
UNK539	91539	28.3	ETHYL, METHYL BENZENE	
UG/L	0			
UNK541	91541	136	TRIMETHYL BENZENE	
UG/L	0			
UNK544	91544	39.7	TRIMETHYL BENZENE	
UG/L	0			
UNK545	91545	172	ETHYLHEXANOL	
UG/L	0			
UNK546	91546	14.0	DIETHYLBENZENE	
UG/L	0			
UNK547	91547	98.6	METHYLPROPYL BENZENE, ETHYL DIMETHYL BENZENE	
UG/L	0			
UNK548	91548	14.4	METHYL PROPYL BENZENE	
UG/L	0			
UNK549	91549	49.0	ETHYL DIMETHYL BENZENE	
UG/L	0			
UNK550	91550	51.0	ETHYL DIMETHYL BENZENE	
UG/L	0			
UNK552	91552	10	METHYL ISOPROPYL BENZENE	
UG/L	0			

PARAMETERS		04009 STORET # T44GMS3		TENTATIVE ID
UNITS		METHOD 3		
DATE		05/06/87		
TIME		07:36		
UNK553		91553	58.6	TETRAMETHYL BENZENE
	UG/L	0		
UNK555		91555	40.2	DIHYDROMETHYL-1H-INDENE,
	UG/L	0		DIETHYL METHYL BENZENE
				c11h16 (AROMATIC HYDROCARBON)
UNK556		91556	39.3	DIHYDROMETHYL-1H-INDENE,
	UG/L	0		METHYL, ISOPROPYL BENZENE
UNK557		91557	9.57	c11h16 (AROMATIC HYDROCARBON)
	UG/L	0		
UNK558		91558	10	DIMETHYL PROPYL BENZENE
	UG/L	0		
UNK559		91559	35.2	NAPTHALENE,
	UG/L	0		DIHYDRO, DIMETHYL-1H-INDENE
UNK567		91567	2140	CAPROLACTAM
	UG/L	0		
UNK568		91568	33.8	METHYL NAPTHALENE
	UG/L	0		
UNK569		91569	15.7	METHYL NAPTHALENE
	UG/L	0		
UNK571		91571	9	UNKNOWN
	UG/L	0		
UNK576		91576	9.97	DIMETHYL NAPTHALENE
	UG/L	0		
UNK577		91577	8.65	DIMETHYL NAPTHALENE
	UG/L	0		

PARAMETERS		04009		TENTATIVE ID
UNITS	STORET #	T44GMS3		
	METHOD	3		
DATE	05/06/87			
TIME	07:36			
UNK589	91589	23.7	UNKNOWN	
UG/L	0			
UNK595	91595	21.2	POSSIBLY DODECYCLOXYETHANOL	
UG/L	0			
UNK611	91611	41.8	UNKNOWN	
UG/L	0			
UNK612	91612	8.78	UNKNOWN	
UG/L	0			
UNK618	91618	9.12	UNKNOWN	
UG/L	0			
UNK622	91622	87.9	UNKNOWN	
UG/L	0			
UNK624	91624	50.3	UNKNOWN	
UG/L	0			
UNK625	91625	12.4	UNKNOWN	
UG/L	0			
UNK632	91632	10.3	UNKNOWN	
UG/L	0			
UNK636	91636	44.5	UNKNOWN	
UG/L	0			
UNK643	91643	765	UNKNOWN	
UG/L	0			
UNK648	91648	9.99	UNKNOWN	
UG/L	0			
UNK695	91695	8.61	UNKNOWN	
UG/L	0			

PARAMETERS	09002	STORET #	T44GMS3	TENTATIVE ID
UNITS		METHOD	4	
DATE	05/05/87			
TIME	14:16			
UNK566	91566	935		CAPROLACTAM
UG/L	0			

PARAMETERS	UNITS	STORET #	22051 T44GMS3 METHOD 5	TENTATIVE ID
DATE			05/13/87	
TIME			07:52	
UNK582		91582	10.7	UNKNOWN
	UG/L	0		
UNK636		91636	19.9	BIS (2-ETHYL HEXYL) PHTHALATE
	UG/L	0		

PARAMETERS		23004 STORET # T44GMS3		TENTATIVE ID
UNITS		METHOD 6		
DATE		05/13/87		
TIME		10:08		
UNK518		91518	11.2	TETRACHLOROETHENE
	UG/L	0		
UNK552		91552	20	UNKNOWN
	UG/L	0		
UNK553		91553	18.1	UNKNOWN
	UG/L	0		
UNK556		91556	10.7	UNKNOWN
	UG/L	0		
UNK557		91557	11.9	UNKNOWN
	UG/L	0		
UNK558		91558	20	UNKNOWN
	UG/L	0		
UNK561		91561	33.5	POSSIBLY BIS(ISOPROPYL)UREA
	UG/L	0		c7h16n2o
UNK566		91566	46.1	UNKNOWN
	UG/L	0		
UNK568		91568	15.2	POSSIBLY OXATRICYCLOOCTANONE
	UG/L	0		
UNK569		91569	57.1	UNKNOWN
	UG/L	0		
UNK571		91571	30	UNKNOWN
	UG/L	0		
UNK573		91573	36.1	UNKNOWN
	UG/L	0		
UNK577		91577	57.8	UNKNOWN
	UG/L	0		
UNK582		91582	32.2	UNKNOWN
	UG/L	0		
UNK587		91587	375	UNKNOWN
	UG/L	0		
UNK588		91588	30	UNKNOWN
	UG/L	0		
UNK589		91589	15.6	UNKNOWN
	UG/L	0		
UNK595		91595	26.9	UNKNOWN
	UG/L	0		
UNK625		91625	22.0	HEXACHLORINATED CMPD, M.WT.364
	UG/L	0		

PARAMETERS		23004 STORET # T44GMS3		TENTATIVE ID
UNITS		METHOD 6		
DATE		05/13/87		
TIME		10:08		
UNK535		91535	11.8	UNKNOWN
	UG/L	0		
UNK540		91540	31.2	UNKNOWN
	UG/L	0		
UNK551		91551	14.3	UNKNOWN
	UG/L	0		
UNK554		91554	45.8	UNKNOWN
	UG/L	0		
UNK562		91562	85.3	UNKNOWN
	UG/L	0		
UNK570		91570	75.0	UNKNOWN
	UG/L	0		
UNK574		91574	29.5	TETRACHLOROBENZENE, UNKNOWN
	UG/L	0		
UNK575		91575	17.6	METHYL SULFOXYL BENZENE
	UG/L	0		
UNK578		91578	114	UNKNOWN
	UG/L	0		
UNK579		91579	274	UNKNOWN
	UG/L	0		
UNK581		91581	20.8	UNKNOWN
	UG/L	0		
UNK583		91583	83.8	UNKNOWN
	UG/L	0		
UNK584		91584	73.6	UNKNOWN
	UG/L	0		
UNK586		91586	32.7	UNKNOWN
	UG/L	0		
UNK590		91590	13.5	PENTACHLORINATED CPD. M.WT.236
	UG/L	0		

PARAMETERS		23004 STORET # T44GMS3		TENTATIVE ID
UNITS		METHOD 6		
DATE		05/13/87		
TIME		10:08		
UNK591		91591	16.7	HEPTACHLOROBICYCLOHEPTENE
	UG/L	0		c7h13cl7
UNK593		91593	13.3	UNKNOWN
	UG/L	0		
UNK594		91594	13.1	UNKNOWN
	UG/L	0		
UNK602		91602	80	UNKNOWN
	UG/L	0		
UNK623		91623	21.9	PENTACHLORINATED CMPD,M.WT.344
	UG/L	0		
UNK633		91633	20.7	CHLORINATED CMPD, M.WT.>325
	UG/L	0		

PARAMETERS	23029	STORET #	T44GMS3	TENTATIVE ID
UNITS		METHOD	7	
DATE	05/13/87			
TIME	11:44			
UNK582	91582	7.31		MONOCHLORINATED CPD, M.WT.182
UG/L	0			

PARAMETERS	24092	STORET #	T44GMS3	TENTATIVE ID
UNITS		METHOD	10	
DATE	05/18/87			
TIME	08:42			
UNK564	91564	13.6	CAPROLACTAM	
UG/L	0			

PARAMETERS	24106	STORET #	T44GMS3	TENTATIVE ID
UNITS		METHOD	11	
DATE	05/18/87			
TIME	13:35			
UNK588	91588	10	UNKNOWN	
UG/L	0			

ENVIRONMENTAL SCIENCE & ENGINEERING 01/06/88 STATUS:

PROJECT NUMBER 87436 0000 PROJECT NAME RMA TASK44
FIELD GROUP T44GMS3 PROJECT MANAGER
T44G3 LAB COORDINATOR HUGH PRENTICE

PARAMETERS	UNITS	STORET #	24111 METHOD	T44GMS3 12	TENTATIVE ID
DATE			05/14/87		
TIME			13:55		
UNK588		91588	9		UNKNOWN
	UG/L	0			
UNK636		91636	68.3		BIS(2-ETHYLHEXYL)PHTHALATE
	UG/L	0			

PARAMETERS	24113	STORET #	T44GMS3	TENTATIVE ID
UNITS		METHOD	13	

DATE	05/18/87
TIME	10:46

UNK566	91566	528	CAPROLACTAM
UG/L	0		
UNK588	91588	6	UNKNOWN
UG/L	0		

PARAMETERS		24127		
UNITS		STORET #	T44GMS3	TENTATIVE ID
		METHOD	15	
DATE		05/12/87		
TIME		14:43		
UNK518		91518	27.0	TETRACHLOROETHENE
	UG/L	0		
UNK565		91565	188	CAPROLACTAM
	UG/L	0		
UNK569		91569	8.55	UNKNOWN
	UG/L	0		
UNK582		91582	10.1	UNKNOWN
	UG/L	0		
UNK587		91587	6.84	UNKNOWN
	UG/L	0		
UNK589		91589	21.5	UNKNOWN
	UG/L	0		
UNK636		91636	16.1	BIS(2-ETHYL HEXYL)PHTHALATE
	UG/L	0		
UNK562		91562	6.45	UNKNOWN
	UG/L	0		
UNK579		91579	111	UNKNOWN
	UG/L	0		
UNK583		91583	14.3	UNKNOWN
	UG/L	0		
UNK584		91584	16.3	UNKNOWN
	UG/L	0		
UNK585		91585	10	UNKNOWN
	UG/L	0		
UNK586		91586	54.7	UNKNOWN
	UG/L	0		
UNK593		91593	8.88	UNKNOWN
	UG/L	0		

PARAMETERS	27049	STORET #	T44GMS3	TENTATIVE ID
UNITS		METHOD	17	
DATE	05/12/87			
TIME	15:12			
UNK516	91516	10.0	UNKNOWN	
UG/L	0			

		27055		
PARAMETERS	STORET #	T44GMS3	TENTATIVE ID	
UNITS	METHOD	19		
DATE	05/08/87			
TIME	09:15			
UNK569	91569	8810	CAPROLACTAM	
UG/L	0			
UNK612	91612	21.3	UNKNOWN	
UG/L	0			
UNK618	91618	23.2	UNKNOWN	
UG/L	0			
UNK622	91622	161	UNKNOWN	
UG/L	0			
UNK624	91624	10.5	UNKNOWN	
UG/L	0			
UNK625	91625	22.8	UNKNOWN	
UG/L	0			
UNK643	91643	994	UNKNOWN	
UG/L	0			
UNK580	91580	20	CHLORINATED HYDROCARBON	
UG/L	0			
UNK583	91583	7.77	2,6-L-BUTYL-4-METHYL PHENOL	
UG/L	0			
UNK633	91633	20.2	UNKNOWN	
UG/L	0			
UNK637	91637	15.4	UNKNOWN	
UG/L	0			
UNK649	91649	8.91	UNKNOWN	
UG/L	0			

33063
PARAMETERS STORET # T44GMS3 TENTATIVE ID
UNITS METHOD 22

DATE 05/06/87
TIME 14:24

UNK567		91567	2240	CAPROLACTAM
	UG/L	0		
UNK642		91642	23.4	UNKNOWN
	UG/L	0		

PARAMETERS		35016		TENTATIVE ID
UNITS	STORET #	T44GMS3		
	METHOD	23		
DATE	05/06/87			
TIME	15:16			
UNK523	91523	13.4	CHLOROBENZENE	
UG/L	0			
UNK539	91539	29.4	1,3-DITHIOLANE, UNKNOWN	
UG/L	0			
UNK557	91557	8.45	POSS. 1,3-DITHIOLANE-2-THIONE	
UG/L	0			
UNK563	91563	52.0	UNKNOWN	
UG/L	0			
UNK565	91565	436	CAPROLACTAM	
UG/L	0			
UNK573	91573	22.9	A SULFUR-CONTAINING CMPD.M.WT.152	
UG/L	0			
UNK577	91577	8.06	A SULFUR-CONTAINING CMPD	
UG/L	0			
UNK582	91582	15.1	A SULFUR-CONTAINING CMPD	
UG/L	0			
UNK587	91587	7.83	UNK	
UG/L	0			
UNK614	91614	21.8	MOLECULAR SULFUR (S8)	
UG/L	0			
UNK642	91642	17.2	UNK	
UG/L	0			

		35066	
PARAMETERS	STORET #	T44GMS3	TENTATIVE ID
UNITS	METHOD	25	
DATE	05/12/87		
TIME	07:47		
UNK563	91563	141	UNKNOWN
UG/L	0		
UNK577	91577	17.3	UNKNOWN
UG/L	0		
UNK582	91582	15.9	MONOCHLORINATED CMPD, M.WT.182
UG/L	0		
UNK572	91572	22.3	MONOCHLORINATED CMPD, M.WT.170
UG/L	0		

PARAMETERS		36084		TENTATIVE ID
UNITS	STORET #	T44GMS3		
	METHOD	26		
DATE	05/12/87			
TIME	10:20			
UNK557	91557	11.8	UNKNOWN	
UG/L	0			
UNK559	91559	5.51	TRICHLOROCYCLOPENTENE	
UG/L	0			
UNK561	91561	10.7	UNKNOWN	
UG/L	0			
UNK563	91563	265	UNKNOWN	
UG/L	0			
UNK565	91565	186	CAPROLACTAM	
UG/L	0			
UNK566	91566	18.7	UNKNOWN	
UG/L	0			
UNK568	91568	14.8	UNKNOWN	
UG/L	0			
UNK569	91569	7.14	UNKNOWN	
UG/L	0			
UNK571	91571	6	UNKNOWN	
UG/L	0			
UNK573	91573	95.5	UNKNOWN	
UG/L	0			
UNK577	91577	49.2	UNKNOWN	
UG/L	0			
UNK582	91582	57.2	MONOCHLORINATED CMPD, M.WT.182	
UG/L	0			

PARAMETERS	UNITS	STORET #	36084 T44GMS3 26	TENTATIVE ID
DATE		05/12/87		
TIME		10:20		
UNK589		91589	12.0	UNKNOWN
	UG/L	0		
UNK695		91695	8.30	UNKNOWN
	UG/L	0		
UNK554		91554	30.7	UNKNOWN
	UG/L	0		
UNK560		91560	7.72	UNKNOWN
	UG/L	0		
UNK574		91574	23.9	SULFUR CONTAINING CMPD, M.WT.136
	UG/L	0		
UNK578		91578	57.6	UNKNOWN
	UG/L	0		
UNK579		91579	14.8	UNKNOWN
	UG/L	0		
UNK580		91580	6	UNKNOWN
	UG/L	0		
UNK581		91581	10.3	UNKNOWN
	UG/L	0		
UNK585		91585	60	UNKNOWN
	UG/L	0		
UNK586		91586	29.7	UNKNOWN
	UG/L	0		
UNK594		91594	15.7	UNKNOWN
	UG/L	0		
UNK596		91596	6.13	UNKNOWN
	UG/L	0		
UNK598		91598	56.9	5-ETHYL-5-SEC.AMYL-2,4,6
	UG/L	0		(1H,3H,5H)-PYRIMIDINETRIONE
UNK603		91603	33.2	CHLORINATED COMPOUND
	UG/L	0		
UNK604		91604	15.4	UNKNOWN
	UG/L	0		
UNK672		91672	19.4	UNKNOWN
	UG/L	0		

PARAMETERS		36090		TENTATIVE ID
UNITS	STORET #	T44GMS3		
	METHOD	27		
DATE	05/06/87			
TIME	13:51			
UNK518	91518	11.2	TETRACHLOROETHANE	
UG/L	0			
UNK523	91523	56.9	CHLOROBENZENE	
UG/L	0			
UNK533	91533	10.3	POSS. 5-METHYL-1,3-OXATHIANE	
UG/L	0			
UNK539	91539	73.1	1,3-DITHIOLANE	
UG/L	0		POSS. DIMETHYL-1,3-OXATHIANE	
UNK542	91542	20.9	POSS. DIMETHYL-1,3-OXATHIANE	
UG/L	0			
UNK544	91544	79.0	UNKNOWN	
UG/L	0			
UNK545	91545	8.99	SULFUR CONTAINING CMPD, M.WT.132	
UG/L	0			
UNK557	91557	44.0	SULFUR CONTAINING CMPD, M.WT.136	
UG/L	0			
UNK558	91558	10	UNKNOWN	
UG/L	0			
UNK561	91561	8.48	UNKNOWN	
UG/L	0			
UNK564	91564	86.3	CAPROLACTAM	
UG/L	0			
UNK573	91573	79.9	DIMETHYL TRITHIOLANE	
UG/L	0			
UNK588	91588	20	UNKNOWN	
UG/L	0			
UNK609	91609	6.32	HEXADECANOIC ACID	
UG/L	0			
UNK617	91617	10.1	UNKNOWN	
UG/L	0			
UNK618	91618	49.5	OCTADECENOIC ACID, UNKNOWN	
UG/L	0			
UNK622	91622	96.1	UNKNOWN	
UG/L	0			
UNK642	91642	126	UNKNOWN	
UG/L	0			
UNK673	91673	375	UNKNOWN	
UG/L	0			
UNK694	91694	37.4	UNKNOWN	
UG/L	0			

PARAMETERS		36139		TENTATIVE ID
UNITS	STORET #	T44GMS3		
	METHOD	2 ^c		
DATE	05/11/87			
TIME	14:39			
UNK550	91550	7.00	1,3,6-DIXATHIOLANE (c5h10o2s)	
UG/L	0			
UNK552	91552	40	UNKNOWN	
UG/L	0			
UNK557	91557	23.0	SULFUR-CONTAINING COMPOUND	
UG/L	0			
UNK563	91563	153	UNKNOWN	
UG/L	0			
UNK573	91573	113	DIMETHYL TRITHIOLANE	
UG/L	0			
UNK577	91577	24.5	SULFUR-CONTAINING CMPD, M.WT.152	
UG/L	0			
UNK582	91582	6.33	MONOCHLORINATED CMPD, M.WT.182	
UG/L	0			
UNK642	91642	11.2	UNKNOWN	
UG/L	0			
UNK554	91554	8.38	UNKNOWN	
UG/L	0			
UNK574	91574	114	SULFUR-CONTAINING CMPD	
UG/L	0			
UNK579	91579	6.46	UNKNOWN	
UG/L	0			
UNK603	91603	7.78	CHLORINATED CMPD	
UG/L	0			

PARAMETERS		37309		TENTATIVE ID
UNITS	STORET #	T44GMS3		
	METHOD	41		
DATE	07/08/87			
TIME	08:56			
UNK563	91563	21.9	UNKNOWN, ALICYCLIC CMPD.	
UG/L	0			
UNK566	91566	72.7	UNKNOWN, ALICYCLIC CMPD.	
UG/L	0			
UNK569	91569	18.1	UNKNOWN	
UG/L	0			
UNK573	91573	9.11	UNKNOWN, ALICYCLIC CMPD.	
UG/L	0			
UNK577	91577	13.3	UNKNOWN	
UG/L	0			
UNK582	91582	16.9	UNKNOWN	
UG/L	0			
UNK587	91587	16.5	UNKNOWN	
UG/L	0			
UNK589	91589	28.2	UNKNOWN	
UG/L	0			
UNK595	91595	13.7	UNKNOWN	
UG/L	0			
UNK625	91625	13.8	UNKNOWN	
UG/L	0			
UNK575	91575	16.1	UNKNOWN	
UG/L	0			
UNK579	91579	79.0	UNKNOWN	
UG/L	0			
UNK580	91580	20	UNKNOWN	
UG/L	0			
UNK581	91581	10.4	UNKNOWN	
UG/L	0			
UNK583	91583	30.0	UNKNOWN	
UG/L	0			
UNK585	91585	80	UNKNOWN, ALICYCLIC CMPD.	
UG/L	0			
UNK586	91586	54.4	UNKNOWN	
UG/L	0			
UNK593	91593	24.5	UNKNOWN	
UG/L	0			
UNK594	91594	31.5	UNKNOWN	
UG/L	0			
UNK623	91623	7.90	c12h9cl5o	
UG/L	0		2,5,7-METHENO-3H-CYCLOPENTA-	
			[A]PENTALEN-3-ONE	
UNK633	91633	40.4	PENTACHLORO CMPD, POSS.M.WT.360	
UG/L	0			
UNK519	91519	23.1	TETRACHLOROETHENE	
UG/L	0			
UNK543	91543	11.2	DCPD ISOMER	

PARAMETERS	STORET #	37332	TENTATIVE ID
UNITS	METHOD	T44GMS3 42	
DATE	07/08/87		
TIME	08:05		
UNK523	91523	8.80	CHLOROBENZENE
UG/L	0		
UNK582	91582	10.3	UNKNOWN
UG/L	0		

PARAMETERS	37333		TENTATIVE ID
UNITS	STORET #	T44GMS3	
	METHOD	43	
DATE	07/09/87		
TIME	07:20		
UNK642	91642	37.8	UNKNOWN
UG/L	0		

PARAMETERS		37344		TENTATIVE ID
UNITS	STORET #	T44GMS3		
	METHOD	44		
DATE	07/08/87			
TIME	11:15			
UNK523	91523	2.90	CHLOROBENZENE	
UG/L	0			
UNK582	91582	8.12	UNKNOWN	
UG/L	0			
UNK589	91589	79.2	UNKNOWN	
UG/L	0			
UNK585	91585	7	UNKNOWN	
UG/L	0			
UNK593	91593	13.7	UNKNOWN	
UG/L	0			
UNK519	91519	39.5	TETRACHLOROETHENE	
UG/L	0			

PARAMETERS		37359		TENTATIVE ID
UNITS	STORET #	T44GMS3	METHOD	
DATE		07/08/87		
TIME		09:45		
UNK523		91523	5.50	CHLOROBENZENE
	UG/L	0		
UNK543		91543	2.48	DICHLOROBENZENE
	UG/L	0		

OFFPOST GC/MS NONTARGET DATA
TASKS 4 AND 44 3RD & 4TH QUARTER,
FY1986 AND 4TH QUARTER FY1987

		37305	
PARAMETERS	STORET #	OPG3C	
UNITS	METHOD	1	TENTATIVE ID
DATE	08/26/86		
TIME	14:56		
UNK563	91563	28.8	UNK
UNK565	91565	154	CAPROLACTAM
UNK582	91582	20.4	UNK
UNK586	91586	8.78	UNK

PARAMETERS	STORET #	37307 OPGW2C	TENTATIVE ID
UNITS	METHOD	2	
DATE	06/18/86		
TIME	11:41		
UNK594	91594	26.4	N-HEPTADECANE; 2,10,6,4-TETRA- METHYLPENTADECANE
UNK600	91600	7.48	N-OCTADECANE
UNK605	91605	13.0	N-NONADECANE
UNK610	91610	7.40	N-EICOSANE

PARAMETERS	STORET #	37308 OPGW2C	TENTATIVE ID
UNITS	METHOD	3	
DATE	06/16/86		
TIME	15:17		
UNK519	91519	20.9	TETRACHLOROETHENE
UNK563	91563	7.43	CYCLOPENTADIENE DERIVATIVE c11h16
UNK566	91566	18.9	c10h10o, CYCLPENTADIENE
UNK579	91579	33.6	UNK
UNK582	91582	6.61	UNK
UNK583	91583	7.54	UNK
UNK585	91585	27.9	UNK
UNK586	91586	18.7	UNK
UNK589	91589	30.5	UNK
UNK593	91593	14.4	UNK
UNK594	91594	6.78	UNK
UNK595	91595	6.42	UNK
UNK633	91633	8.52	TETRACHLORINATED COMPOUND

PARAMETERS		37312	
UNITS	STORET #	OPGW2C	TENTATIVE ID
DATE	METHOD	I	
TIME		06/17/86	
		11:13	
UNK579	91579	6.57	UNK

PARAMETERS	STORET #	37313 OPG3C	TENTATIVE ID
UNITS	METHOD	2	
DATE	08/26/86		
TIME	10:15		
UNK560	91560	7.49	UNK
UNK563	91563	29.0	UNK
UNK565	91565	339	CAPROLACTAM
UNK579	91579	14.4	2-(4-METHYL-2-FURYL)-2-CYCLOPENTEN-1-ONE
UNK582	91582	27.5	UNK
UNK585	91585	11.8	UNK
UNK586	91586	14.6	UNK
UNK588	91588	38.7	PROPANOIC ACID, 2-METHYL-1-(1,1-DIMETHYL ETHYL)-2-METHYL-1,3-PROPANEDIOL ESTER
UNK599	91599	7.87	UNK
UNK642	91642	96.6	UNK
UNK654	91654	911	UNK
UNK671	91671	752	UNK
UNK693	91693	571	UNK

PARAMETERS	STORET #	37320	TENTATIVE ID
UNITS	METHOD	OPG3C	
DATE	09/22/86	3	
TIME	12:06		
UNK529	91529	14.1	2-METHYLCYCLOPENTANONE
UNK648	91648	11.3	UNK
UNK652	91652	236	UNK

		37332	
PARAMETERS	STORET #	OPGW2C	TENTATIVE ID
UNITS	METHOD	5	
DATE	06/16/86		
TIME	11:58		
UNK040	91040	7.50	UNK
UNK582	91582	6.41	UNK

PARAMETERS	37343	
UNITS	STORET # OPGW2C	TENTATIVE ID
DATE	METHOD 6	
TIME	06/13/86	
UNK594	08:39	
	91594 14.3	N-HEPTADECANE, 2,6,10,14- TETRAMETHYLPENTADECANE

PARAMETERS	37343		
UNITS	STORET #	OPGW2C	TENTATIVE ID
	METHOD	6	
DATE	06/13/86		
TIME	08:39		
UNK600	91600	5.51	2,6,10,14-TETRAMETHYLPENTADECANE
UNK605	91605	7.49	N-NONADECANE
UNK667	91667	175	UNK

PARAMETERS	37347	TENTATIVE ID
UNITS	STORET # OPG3C	
DATE	METHOD 5	
TIME	08/25/86	
	00:00	

PARAMETERS	37349	TENTATIVE ID
UNITS	STORET # OPG3C	
DATE	METHOD 6	
TIME	09/11/86	
	07:53	

		37353	
PARAMETERS	STORET #	OPGW2	TENTATIVE ID
UNITS	METHOD	8	
DATE	06/12/86		
TIME	11:32		
UNK523	91523	10.8	A NONANE
UNK524	91524	13.0	4-HYDROXYL-4-METHYL-2-PENTANONE
UNK526	91526	20.9	A NONANE
UNK526	91526	20.9	A NONANE
UNK527	91527	32.3	METHYLOCTANE

PARAMETERS	STORET #	OPGW2C	TENTATIVE ID
UNITS	METHOD	8	
DATE	06/12/86		
TIME	11:32		
UNK649	91649	120	UNK
UNK657	91657	67.7	UNK

PARAMETERS	37353	TENTATIVE ID
UNITS	STORET # OPG3C	
DATE	METHOD 4	
TIME	09/12/86	
	07:38	

PARAMETERS	37354		
UNITS	STORET #	OPGW2C	TENTATIVE ID
DATE	METHOD	4	
TIME	06/11/86		
UNK635	91635	2.83	BIS(2-ETHYLHEXYL)PHTHALATE

PARAMETERS	STORET #	37356 OPG3C	TENTATIVE ID
UNITS	METHOD	7	
DATE	09/08/86		
TIME	10:43		
UNK652	91652	127	UNK

PARAMETERS	37357	TENTATIVE ID
UNITS	STORET # OPG3C	
DATE	METHOD 8	
TIME	09/11/86	
	10:47	

PARAMETERS	STORET #	BOLLER OPGW2C	TENTATIVE ID
UNITS	METHOD	7	
DATE	07/01/86		
TIME	09:32		
UNK588	91588	11.4	UNK
UNK635	91635	18.4	PHTHALATE, BIS(2-ETHYLHEXYL)- PHTHALATE
UNK640	91640	5.79	PHTHALATE
UNK649	91649	7.08	PHTHALATE
UNK654	91654	6.42	PHTHALATE
UNK656	91656	112	UNK
UNK669	91669	5.87	PHTHALATE

GC/MS TRIP BLANK DATA

BOYS TRIP BLANKS

STORE CODE:	FIELD CRP.	SAMPLE ID	DATE	TIME	34371 INB ETHYBENZ	34030 INB BENZENE	81596 INB NIBK	81500 INB DMS	34496 INB I1DCE	34531 INB I2DCE	34506 INB I1TCE	34511 INB I1TCE	34423 INB NETWCL	32106 INB CML3	32102 INB CCL4	34546 INB T12DCE	34010 INB TOLUEN	34301 INB CLGMS
UNIT:	US/L	US/L	US/L	US/L	US/L	US/L	US/L	US/L	US/L	US/L	US/L	US/L	US/L	US/L	US/L	US/L	US/L	US/L
T4TBC 2	TBK2	06/04/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 3	TBK3	06/05/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 5	TBK5	06/12/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 6	TBK6	06/23/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 7	TBK7	06/24/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 8	TBK8	06/24/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 9	TBK9	06/26/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 10	TBK10	06/27/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 11	TBK11	06/30/86	00:52		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 12	TBK12	07/01/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 3	TBK3	00/20/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 4	TBK4	09/02/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 5	TBK5	09/03/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 6	TBK6	09/04/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 7	TBK7	09/05/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 8	TBK8	09/06/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 9	TBK9	09/12/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 4	TBK4	09/12/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 9	TBK9	09/15/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 10	TBK10	09/17/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 11	TBK11	09/18/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 12	TBK12	09/19/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 13	TBK13	09/22/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 14	TBK14	09/23/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 15	TBK15	09/24/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 16	TBK16	09/26/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 17	TBK17	09/29/86	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 50	TBK1	05/05/87	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 51	TBK2	05/06/87	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 52	TBK3	05/11/87	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 53	TBK4	05/11/87	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 54	TBK5	05/12/87	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 55	TBK6	05/13/87	07:52		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 56	TBK7	05/18/87	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 57	TBK8	05/19/87	00:00		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0
T4TBC 59	TBK10	07/09/87	07:20		<1.0	<1.0	<2.0	<3.0	<2.0	<1.0	<1.0	<1.0	<5.00	<1.00	<2.0	<2.0	<1.0	<2.0

GCMS TRIP BLANKS

STORET CODE:	FLD. GRP.	#	SAMPLE ID	DATE	TIME	34475 INB TCLEE UG/L	39180 INB TRCLE UG/L	98553 INB R-XYLENE UG/L	98554 INB OP-XYL UG/L	99133 INB BDCP UG/L	77945 INB BDCP UG/L	98633 INB BCHD UG/L
T4TBC	2	TBK2	06/04/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	3	TBK3	06/05/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	5	TBK5	06/12/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	6	TBK6	06/23/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	7	TBK7	06/24/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	8	TBK8	06/24/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	9	TBK9	06/26/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	10	TBK10	06/27/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	11	TBK11	06/30/86	00:52		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	12	TBK12	07/01/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	3	TBK3	08/28/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	4	TBK4	09/02/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	5	TBK5	09/03/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	6	TBK6	09/04/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	7	TBK7	09/05/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	8	TBK8	09/06/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
OPTBC	4	TBK4	09/12/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	9	TBK9	09/15/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	10	TBK10	09/17/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	11	TBK11	09/18/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	12	TBK12	09/19/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	13	TBK13	09/22/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	14	TBK14	09/23/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	15	TBK15	09/24/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	16	TBK16	09/26/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T4TBC	17	TBK17	09/29/86	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T44GMS3	50	TBK1	05/05/87	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T44GMS3	51	TBK2	05/06/87	00:00		<1.0	<1.0	<1.0	<2.0	<4.0	<2.0	<1.0
T44GMS3	52	TBK3	05/08/87	00:00		<1.0	<1.0	<1.0	<2.0	<3.8	<1.1	<1.0
T44GMS3	53	TBK4	05/11/87	00:00		<1.0	<1.0	<1.0	<2.0	<3.8	<1.1	<1.0
T44GMS3	54	TBK5	05/12/87	00:00		<1.0	<1.0	<1.0	<2.0	<3.8	<1.1	<1.0
T44GMS3	55	TBK6	05/13/87	07:52		<1.0	<1.0	<1.0	<2.0	<3.8	<1.1	<1.0
T44GMS3	56	TBK7	05/18/87	00:00		<1.0	<1.0	<1.0	<2.0	<3.8	<1.1	<1.0
T44GMS3	57	TBK8	05/19/87	00:00		<1.0	<1.0	<1.0	<2.0	<3.8	<1.1	<1.0
T44GMS3	59	TBK10	07/09/87	07:20		<1.0	<1.0	1.4	<2.0	<3.8	<1.1	<1.0

APPENDIX E

HYDROCHEMICAL PROPERTIES AND HYDROLOGIC CALCULATIONS

APPENDIX E

HYDROCHEMICAL PROPERTIES

Several hydrochemical properties that are discussed in Section 5.0 and presented in this Appendix may also influence contaminant distribution in the Denver Fm. These parameters include density, solubility, viscosity, and partitioning behavior (partition coefficients). The following discuss the environmentally important properties of chemicals, as well as the major types of mechanisms that may be operative at RMA, and the influence these controls may exert on compound distribution.

E.1 PHYSIOCHEMICAL PROPERTIES

The concentration, behavior, and fate of compounds in aqueous media are determined by a number of physiochemical and biological processes (Moore and Ramamoothy, 1984). These processes include sorption-desorption, volatilization, oxidation-reduction, hydrolysis, halogenation-dehalogenation, cosolvent effects, photochemical processes, and metabolic transformation which influence contaminant partitioning, migration, and degradation. Processes are discussed in Section E.2. Specific chemical properties influence the physiochemical processes, and include density, solubility, viscosity, vapor pressure, and partition coefficients. A summary of these properties for contaminants identified in RMA waters is discussed below and provides information to assess fate and transport processes that control contaminant distribution in aqueous media.

E.1.1 DENSITY

Density is defined as the mass per unit volume of a substance under standard conditions of pressure and temperature (Morris, 1976). Specific gravity is similar to density, as it represents the mass of a compound relative to that of an equal volume of water at 4°C. After immiscible contaminants are introduced to the ground-water system they will either sink, float, or remain suspended in the ground water as a function of compound density/specific gravity. Table 5.2-3 lists the specific gravity of RMA contaminants.

The influence of compound density on contaminant distribution is substantially decreased once the compound is dissolved. However, the resulting density of the overall aqueous media relative to uncontaminated aquifer waters may produce a small amount of density differentiation, depending on compound concentration. As a contaminant continues to mix with uncontaminated water, dilution of the ground water/contaminant mixture occurs and the effects of density differentiation are greatly reduced.

E.1.2 SOLUBILITY

Solubility is the maximum amount of a compound that will dissolve in a given amount of solvent. This property will affect the amount of contaminant that can be transported in the dissolved phase within aqueous media.

Solubility of a contaminant in water is influenced by a number of parameters including temperature, pressure, chemical reactions within the ground water system, pH, Eh, and the concentration of other ionic species in solution. In very general terms, the solubility of a compound increases with increased temperature, decreased ionic content, decreased pH (for metals), and increased organic constituent content (Ebasco, 1988, unpublished). Table 5.2-3 summarizes RMA contaminant solubility in water. In general, compounds with solubilities in excess of 1,000 mg/l may be considered relatively soluble, which includes most of the volatile organohalogenes, benzene, DBCP, MIBK, CPMSO, CPMSO₂, DMDS, oxathiane, dithiane, DIMP, and DMMP.

Arsenic is generally considered insoluble, although it is found throughout much of the RMA alluvial ground water (Figure 4.2-18). One possible explanation for this occurrence is that arsenic may be found as metalloid complexes (negatively charged or neutral) that exhibit little or no adsorption or ion exchange attenuation (Freeze and Cherry, 1979, Task 23).

E.1.3 VISCOSITY

Viscosity can be an important consideration for immiscible compounds. In a porous media setting, immiscible, viscous material will travel at lower rates than dissolved constituents through porous media. Noting that many of

the contaminants at RMA exhibit miscibility, this parameter may be of concern only where solubility of a compound is exceeded and undissolved material may exist.

E.1.4 VAPOR PRESSURE

Vapor pressure is defined as the pressure exerted by vapor in equilibrium with its solid or liquid phase (Morris, 1976). This parameter defines which compounds are classified as volatile and determines the relative potential influence of the vapor phase on contaminant distribution. Vapor pressure is highly dependent upon temperature and molar/molal heat of vaporization (Moore and Ramamoorthy, 1984). Ebasco (1988) assembled information regarding vapor pressure for RMA compounds (Table 5.2-3). In general terms, volatile compounds exhibit vapor pressures in excess of 1 millimeter of mercury (mmHg), semivolatile compounds exhibit vapor pressures between 1 and 0.001 mmHg, and nonvolatile compounds exhibit vapor pressures less than 1×10^{-3} mmHg (Ebasco, 1988).

E.1.5 PARTITION COEFFICIENTS

A partition coefficient is the measure of the distribution of a given compound between two phases and may be expressed as a concentration ratio (Moore and Ramamoorthy, 1984). Of particular concern to aqueous media are the partitioning of compound between the aqueous and vapor phases, and partitioning of contaminant between the aqueous and solid (aquifer material) phases. These behaviors are defined by Henry's constant (K_h) and the sorption coefficient (K_d), which are discussed below.

E.1.5.1 HENRY'S LAW CONSTANT

Henry's law states that at equilibrium, the solubility of a gas in water at a constant temperature is proportional to the vapor pressure (Hem, 1986). This proportionality is related to Henry's law constant, which is defined by the formula:

$$K_h = \frac{[x]}{P_x}$$

where:

- K_h = Henry's constant,
- $[x]$ = Activity of the compound in the liquid phase, and
- P_x = Vapor pressure of the compound at a given temperature.

K_h is constant at equilibrium, therefore, variations in either P_x or $[x]$ will produce a corresponding adjustment in the other phase.

Compounds that exhibit K_h of less than 10^{-7} atm-m³/mol are considered nonvolatile and will exist primarily as dissolved or sorbed constituents within aqueous media. Compounds with K_h between 10^{-7} and 10^{-3} atm-m³/mol may be considered semivolatile in nature, while contaminants with K_h greater than 10^{-3} atm-m³/mol volatile.

E.1.5.2 SORPTION COEFFICIENT

The sorption coefficient, or K_d , is represented by the ratio of the concentration of a contaminant sorbed to aquifer material and the concentration of contaminant in the aqueous phase. The following formula describes this relationship:

$$K_d = \frac{C_s}{C_w}$$

where:

K_d = Sorption coefficient;
 C_s = Concentration in the solid phase; and
 C_w = Concentration in the liquid phase.

K_d is different for each contaminant, and is affected by temperature, pH, Eh, and composition of both the soil and aqueous media.

K_d is markedly influenced by the organic carbon content within the system. Organic carbon is usually associated with the solid media, and the relationship is described by:

$$K_d = K_{oc} \cdot f_{oc} \quad \text{or} \quad K_{oc} = \frac{K_d}{f_{oc}}$$

where:

K_{oc} = Sorption coefficient on organic carbon in soil; and
 f_{oc} = Fraction organic carbon in solid.

Sorption coefficient values shown on Table 5.2-3 were mainly acquired from Task 35, although values derived under the K_d Investigation were also considered (ESE, 1988). Under this investigation, borings were installed in the Basin A area and ground water/aquifer soil samples collected to determine partition coefficient values for RMA compounds. K_d calculations were conducted based on K_{oc} and f_{oc} determinations, and were compared with estimates presented in the Task 35 Toxicity Assessment (Ebasco, 1988). Figure E-1 illustrates the relationship of K_d and K_h within aqueous media at RMA. The Figure shows those compounds that are volatile, semivolatile, and nonvolatile. This Figure shows that dichloro-ethene/ethane compounds and methylene chloride may have 30 to 70 percent of constituents in the vapor phase relative to the dissolved phase, with the remainder of the volatiles exhibiting 4 to 30 percent of their total concentration in the vapor phase. The Figure also serves to illustrate partitioning behavior of semivolatile/nonvolatile compounds. Compounds to the left exhibit higher K_d s, and are therefore more likely to be sorbed to aquifer material relative to compounds on the right side of the diagram.

An additional partitioning relationship of concern is defined by the octanol-water partition coefficient (K_{ow}) (Table 5.2-3). This parameter is defined by the ratio of a chemical's concentration in the octanol phase to its concentration in the aqueous phase in a two-phase system (Ebasco, 1988). K_{ow} is of particular concern in a system where both aqueous and organic solvent phases are present. A compound may partition into either phase preferentially based on the compound's K_{oc} . There is not sufficient solvent concentration within RMA waters to cause this cosolvent effect on a regional basis, although localized partitioning may occur. A laboratory study by Staples and Geiselmann (1987) using soil columns indicated that cosolvent concentrations of approximately 5 to 10 percent were necessary to reduce transport time by 1/2. This would require organic solvent concentrations on the order of 50,000 ppm to 100,000 ppm, much higher than detectable concentrations in RMA ground-water.

The sorption coefficient (K_d) is particularly important because it may profoundly influence contaminant distribution within a ground-water system.

Contaminant flow will be attenuated by the amount of partitioning between the liquid and solid phase, and is represented by the equation:

$$R_f = 1 + \frac{B \cdot K_d}{N_e}$$

where:

- R_f = Retardation factor,
- B = Bulk density of the aquifer material (kg/l), and
- N_e = Effective porosity of the aquifer.

Estimates for effective alluvial aquifer porosity range between 20 percent and 35 percent, with an estimated porosity of 30 percent. Bulk density is approximately 2.7 g/cm³. Multiplying R_f by ground-water velocity can indicate potential contaminant migration rates.

E.2 CONTAMINANT TRANSPORT AND FATE PROCESSES

To determine the interaction of contaminated RMA soils and ground water and their subsequent impact on the environment, an understanding of contaminant fate and transport is required. Environmental contamination problems would be minimal in the absence of transport processes. It is the transport processes that cause the migration of contaminants laterally and vertically from the site of their storage, disposal, or accidental spill. In addition to the migration of contaminants from their point of origin in the environmental matrix, numerous transformation and degradation processes also influence their fate. These processes can cause changes in the physical properties of contaminants, such as increasing or decreasing their mobility and toxicity. The dynamic interaction of these fate and transport processes governs the distribution of contaminants in the soil.

In order to summarize potential fate and transport mechanisms in the unsaturated and saturated soil environments, processes have been organized into three general categories:

- o Transport processes;
- o Attenuation processes; and
- o Loss processes.

Several processes are included under each of these general categories. The role of these processes in the environment, and their specific influence on

RMA contaminant fate and transport, is discussed below. This categorization is in some sense artificial, and is strongly dependent on the definition of the system of interest. Some processes have characteristics which cause them to fall to some extent into more than one category. For example, volatilization can be an attenuation process in the aqueous phase if contaminants are retained in the gaseous phase within the soil pore space. In this case the contaminants may reenter solution. If the gaseous contaminants are lost to the atmosphere they are no longer a component in the system in question. This would be considered a loss process. Ecological exposure pathways will be discussed in detail in the forthcoming Biota Remedial Investigation Report (ESE, 1988).

E.2.1 Transport Processes

Processes that effect transport of soluble contaminants in ground water include advection and dispersion. Advection is the process by which contaminants are transported by the bulk motion of flowing ground water. It is the primary process by which solutes migrate in coarse-grained, permeable aquifers. The magnitude of the driving force for ground-water flow is the hydraulic conductivity. The average linear velocity of ground water in an aquifer is equal to the product of the gradient and the aquifer's capability to transmit water (Mackay et al., 1985).

A plume of dissolved contaminants will spread as it moves with ground water. This tendency to spread is called dispersion and it is the result of two processes-- molecular diffusion and mechanical mixing.

Molecular diffusion defines the tendency for ionic and molecular species to move under the influence of their kinetic activity. This kinetic activity of contaminants in solution results in a net flux, or diffusion, of contaminants from an area of higher concentration to an area of lower concentration (Freeze and Cherry, 1979). The influence of molecular diffusion on movement of solutes diminishes directly with the velocity of ground water flow.

Mechanical mixing, by contrast, involves variation in ground water velocity caused by frictional forces, variability in pore dimensions, and variability

in localized flow direction (Mackay et. al., 1985). Dispersion leads directly to dilution, so that maximum concentrations diminish with distance from the source. Dispersion will also tend to increase the uniformity of concentrations in a plume with distance from the source. Observed dispersion in the direction of longitudinal flow is usually greater than dispersion in the traverse direction of flow. Tests using field tracers indicate increasing dispersivity in the longitudinal direction as the distance between injection and observation wells increases, until some point where the dispersivity stops increasing. This phenomenon of increased dispersivity with increased distance travelled is referred to in the literature as the scale effect (Molz, 1983). It is possible for dispersive spreading to result in the arrival of detectable contaminant concentrations prior to the predicted arrival time based solely on the average ground water velocity (Newsom, 1985; Mackay, 1985).

E.2.2 ATTENUATION PROCESSES

The concentrations of many organic and inorganic contaminants in ground water are often much lower than would be expected on the basis of equilibrium solubility calculations or from supply to the aqueous phase from point source concentrations. Most commonly these compounds are adsorbed onto the solid phase or, in the case of inorganic contaminants, are influenced by chemical precipitation in response to solubility constraints (Drever, 1982; Cherry, 1984).

E.2.2.1 SORPTION-DESORPTION

Partitioning between coexisting aqueous and solid phases is the dominant factor for determining the extent to which a contaminant will be leached to the water table and transported with ground-water flow. Contaminants that are strongly sorbed to the solid phase will migrate at a relatively slow rate compared to contaminants which are not as strongly sorbed. Many contaminants of environmental concern are commonly detected in both the solid and aqueous phases at similar concentrations. For these moderately adsorbed compounds, travel times will be intermediate between those that are more readily adsorbed and those with minimal adsorption characteristics.

The transfer of contaminant mass by sorption from the aqueous phase to the solid phase of the porous medium causes retardation of the rate of contaminant transport. The partition coefficient concept is based on the assumption that the reactions that partition contaminants between the aqueous and solid phases are completely reversible. In such a case contaminant plume transport will be retarded by the transfer of contaminant mass from the liquid to the solid phase. As concentrations decrease in ground-water, contaminants will be transferred back to the aqueous phase. After input of contaminated water is discontinued, the plume of contamination will move down the flow path as it is replaced by ground-water with decreasing concentrations. With sufficient time, all contaminants will be flushed from the ground-water system if the reactions are reversible. Any contaminant fixed to the solid phase irreversibly, relative to the time scale of interest, will not be transferred back to the aqueous phase and will therefore remain in place in the subsurface environment. In cases where partitioning cannot be described by equilibrium relations, information on reaction rates between contaminant and porous media is required in order to make accurate predictions on rate of contaminant migration. An example of this are substances that do not react rapidly enough with the porous media relative to ground-water flow rates for equilibrium to be established (Freeze and Cherry, 1979).

These are several generalities that can be used to predict the extent of sorption. The more hydrophobic an organic compound is, the more likely it is to be sorbed. The solubility of an organic compound depends upon the physiochemical characteristics of the sorbent material, such as available surface area, nature and density of charge, presence of hydrophobic areas, presence of organic matter such as humic and fulvic acids, as well as characteristics of the contaminant such as solubility and hydrophobicity. Karickhoff (1981) generalized that for neutral organic compounds of limited solubility ($<10^{-3}$ M), that are not susceptible to speciation charges, sorption is primarily controlled by organic carbon content and the percentage of fine-grained sediments.

E.2.2.2 DISSOLUTION/PRECIPITATION

To predict solubility constraints the law of mass action and the associated principles of equilibrium-chemical thermodynamics must be considered. The equilibrium relation for a contaminant species controlled by precipitation or dissolution is defined as:



where: X is the inorganic contaminant species in the solution phase;
Y is a mineral or solid amorphous compound in which the contaminant species is incorporated by precipitation or from which it is released by dissolution;
B, C, and D are other species in solution; and,
x, y, b, c, and d are the stoichiometric mole number.

From the law of mass action, the equilibrium expression is obtained

$$[X]^x = [C]^c [D]^d / K_{eq} [B]^b;$$

where: K_{eq} is the equilibrium constant and the quantities within the brackets are chemical activities of the species indicated.

If X is initially above the equilibrium concentration when it enters the ground water system, adjustment toward equilibrium will occur by precipitation of mineral or amorphous solids. If X is below the equilibrium concentration, available minerals or amorphous solids that contain X as part of the chemical structure will dissolve.

E.2.3 LOSS PROCESSES

Loss processes are those that cause a compound to be removed permanently from the environmental system under study. For example, compounds with relatively high values of Henry's law constant are likely to volatilize from a surface water body. After volatilization they are lost to the aqueous phase and are present in the atmosphere where they are subject to a different set of processes.

E.2.3.1 Volatilization

Volatilization is the process by which a compound evaporates from either a liquid or solid phase to the gas phase. Loss of contaminants from surface water and shallow ground water through volatilization can be a significant transport pathway, resulting in reduced concentrations. The degree to which a compound will be volatilized is dependent on physical chemical characteristics of the compound, such as vapor pressure and Henry's law constant, as well as properties of the coexisting sediment and aqueous phases.

E.2.3.2 Chemical Transformations

Transformation and degradation processes determine whether a chemical will persist in the environment. Key processes include both biological and chemical mechanisms, such as biotransformation, hydrolysis, photolysis, and oxidation-reduction. Contaminants are generally reduced to less hazardous components, such as carbon dioxide and water. However, the characteristics of degradation products may, in certain instances, be of greater concern due to increased toxicity, persistence, or mobility. Specific rates at which these processes occur are dependent on individual chemical, soil, and environmental characteristics. In general, surface processes occur at faster rates than subsurface processes.

Several chemical reaction mechanisms potentially contribute to the overall process of chemical transformation. Hydrolysis, photolysis, and oxidation-reduction reactions are the primary components of chemical transformation in surface and ground-water, although other reactions, such as reductive dehalogenation may be significant for individual compounds of interest. Callahan (1979) assessed potential transformations affecting priority pollutants in aqueous systems. Only a brief description of each major class of reactions is provided below.

Hydrolysis

During hydrolysis, an organic compound reacts with water, resulting in the introduction of a hydroxyl group into the molecule and subsequent elimination of another functional group, such as a halogen. Hydrolysis may

be catalyzed by acid (H^+), base (OH^-), or metal (M^+) ions; thus, the rate of hydrolysis is pH and metal-ion-concentration dependent. Surface effects may also influence the rate of hydrolysis. Hydrolysis of some pesticide derivatives is more rapid in the presence of humic materials.

Mabey and Mill (1978) reviewed data for hydrolysis of a variety of organic chemicals for use in predicting of half-lives in aquatic systems. In some cases alkyl halides appear to exhibit hydrolysis rates which are independent of pH in the environmental pH range of 4-9. Carboxylic acid esters, however, are acid/base promoted and exhibit a minimum hydrolysis rate at pH 4-5. Rate constants for many hydrolyzable structures can be estimated from published data (EPA, 1979).

Photochemical Processes

Photochemical processes include both direct photolysis and sensitized photolysis. In direct photolysis the compound adsorbs solar radiation and is transformed, while in sensitized photolysis, the energy which transforms the compound is derived from another species in solution. Photolysis reactions may occur in either near-surface soils or surface water.

Photochemical reactions generally occur at wavelengths greater than 290nm. The rate of direct photolysis is dependent on the sunlight photon flux, the light adsorption coefficients of the chemical, and the reaction efficiency for converting absorbed light into chemical reaction.

In contrast to direct photolysis, indirect photolysis will take place if substances naturally present in aquatic environments form excited chemical species or radicals upon absorption of sunlight. These radicals subsequently react with a chemical. Photochemical reactions that may be considered in the indirect class are those in which photolyzed natural substances produce high energy intermediates that react with the ground state of the chemical. An example of such indirect reactions is photo-oxygenation. In this case singlet oxygen is the intermediate.

Oxidation-Reduction

In the soil environment, oxidation-reduction (redox) reactions involving both inorganic and organic compounds are important. Inorganic chemists define oxidation as the loss of electrons and increase in oxidation number, while reduction is the gain of electrons and decrease in oxidation number. Organic oxidation reactions generally involve a gain in oxygen and loss of hydrogen, while the reverse is frequently true for organic reduction.

Many organic compounds can either accept or donate electrons, forming reduced or oxidized species. This oxidation or reduction may alter an organic compound's environmental and biological properties. The rate of loss of a chemical by oxidation or reduction is generally a second-order kinetic reaction. Oxidation may be expressed by the following:

$$- \frac{dC}{dt} = K_{ox} [ox] [C]$$

where k_{ox} = second-order rate constant for the oxidation of chemical, C, and [ox] and [C] are the concentrations of oxidant and chemical, respectively. Mill (1979) reviewed the use of K_{ox} for estimation of oxidation half-lives of chemicals (Moore and Ramanoorthy, 1984).

Oxygen often requires the presence of O_2 , but the reaction usually involves free radicals, especially OH, RO_2 , RO, and singlet oxygen as the oxidant (where R= carbon chain or ring). Redox reactions are often biologically mediated, but can also occur in abiotic systems. Chemical structures most susceptible to oxidation include, phenols, aromatic amines, and dienes. Unsaturated alkyl compounds such alkenes, halogenated alkenes, alcohols, esters, and ketones are not readily oxidizable in the ground water environment (Cherry et al., 1984).

Halogenation-Dehalogenation

Reductive dehalogenation involves the removal of a halogen atom via an oxidation-reduction reaction. This reaction is most likely to occur in low-redox state ground waters. This biological reaction requires mediators, such as Fe^{+3} or biological products, to accept electrons generated by oxidation of reduced organics and to transfer these electrons to the

halogenated organic compound to bring about dehalogenation (Mackay et al., 1984).

Conversely, halogenation of organic compounds occurs mostly under synthetic conditions or under harsh environmental conditions. Mild chlorination reactions are possible in natural waters containing residual chlorine.

Metabolic Transformation

Biotransformations occur as a result of the metabolic activity of microorganisms through the action of enzymes which catalyze chemical reactions. These reactions generally lead to the production of energy or some essential nutrient for the organism, although some chemicals may be transformed even though the specific reaction does not promote growth. Rates of biotransformation are dependant on microbial tolerance to specific contaminant compounds and the availability of groups of compounds, such as oxygen and nitrate, as nutrient sources. Therefore, rates of biodegradation are dependent upon microbial population and environment as well as the physical/chemical properties of the compound. Although only limited information is available on rates of biodegradation, historical data and field studies may be helpful in evaluating the use of biodegradation processes in remediating site contamination.

GROUND WATER VELOCITY CALCULATIONS

Calculation of Lateral Travel Times in the Denver Fm--The lateral travel times in Denver Fm units were estimated by calculating the average linear ground-water velocity from the principles of Darcy's Law, which can be written as:

$$v = \frac{K}{n} \frac{dh}{dl}$$

where:

- \bar{v} = average linear ground-water velocity
- K = horizontal hydraulic conductivity
- dh = horizontal hydraulic gradient
- dl
- n = porosity (calculated from soil test data on Denver Fm units by May et al. (1980, RIC#81266R48) and May (1982, RIC#82295R01)).

The horizontal hydraulic conductivity values used, 1.6 ft/day and 1.1 ft/day, were determined from pumping tests performed on Wells 22317 and 24154 by Black and Veatch (1980, RIC#81266R25). These are the only horizontal hydraulic conductivity values obtained from a pumping test for confined Denver Fm sandstone units at RMA. These values were chosen to obtain a conservative estimate of travel times and because pumping tests generally provide more reliable values than slug tests.

The hydraulic gradient used was 0.01 ft/ft which is representative of potentiometric surface gradients observed in Denver Fm zones at RMA. The porosity of the Denver Fm sandstones was estimated from the following equation:

$$n = \frac{e}{1 + e}$$

where: n = porosity
e = void ratio

and the void ratio was calculated from:

$$e = \frac{(G - w)}{d} - 1$$

where: e = void ratio
G = specific gravity (2.7)
w = unit weight of water (62.4 lb/ft³)
d = dry unit weight (96.0 to 113.6 lbs/ft³)

This calculation was performed by assuming a specific gravity for sandstone of 2.7 (Lambe and Whitman, 1969) and using the range of dry-unit weights for sandstone samples determined from laboratory tests by May et al. (1980, RIC#81266R48) and May (1982, RIC#82295R01). Using the above equation, calculated porosity values ranged from 0.33 for medium to coarse-grained sandstone to 0.43 for silty, fine-grained sandstone. These porosity values are in close agreement with the representative values reported for fine-grained sandstone (0.33) and medium-grained sandstone (0.37) by Morris and Johnson (1967). To obtain the highest estimates of average linear ground-water velocities, the lowest porosity value of 0.33 was used.

Vertical average linear ground-water velocities were estimated using Darcy's Law. The calculation of vertical average linear ground-water velocity is dependent on the vertical hydraulic conductivity, the porosity of the weathered clayshale, and the vertical hydraulic gradient.

The vertical hydraulic conductivity of the weathered clayshale could be estimated by three methods: pumping tests, laboratory permeability tests, and using the assumption that vertical hydraulic conductivity is generally two orders of magnitude less than the horizontal hydraulic conductivity. These three methods will be briefly described below.

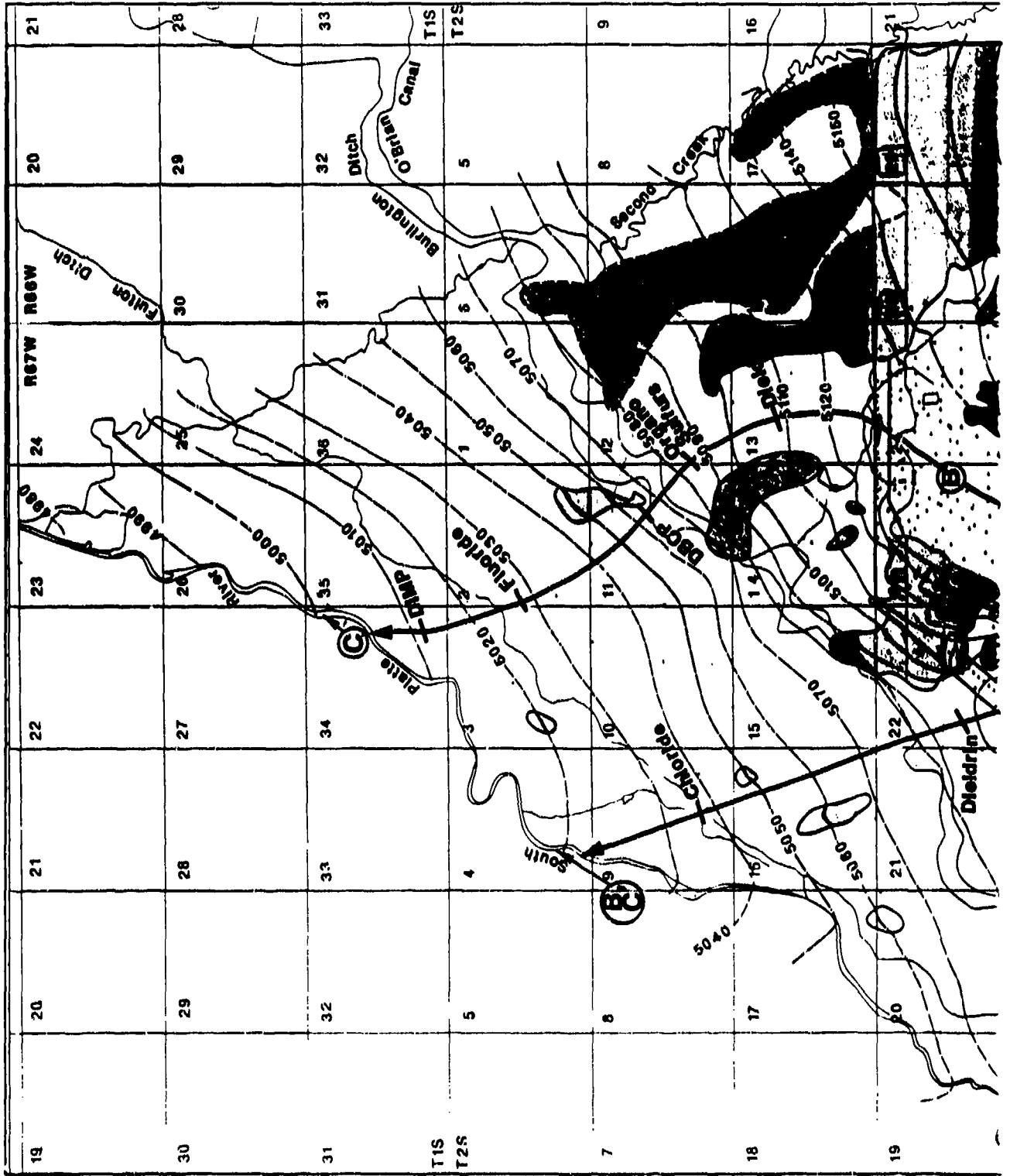
The first method used a pumping test performed near the NBCS at Well 24154 (Black and Veatch, 1980, RIC#81266R25) to estimate vertical hydraulic conductivity for clayshale using the type-curve graphical method devised by Walton (1960) for a leaky artesian aquifer. However, as explained in the Task 36 Draft Final Report (ESE, 1988), the 4.1×10^{-5} ft/day value may have been underestimated because the confining layer between the alluvium and the sandstone unit that was tested was 20-ft thick.

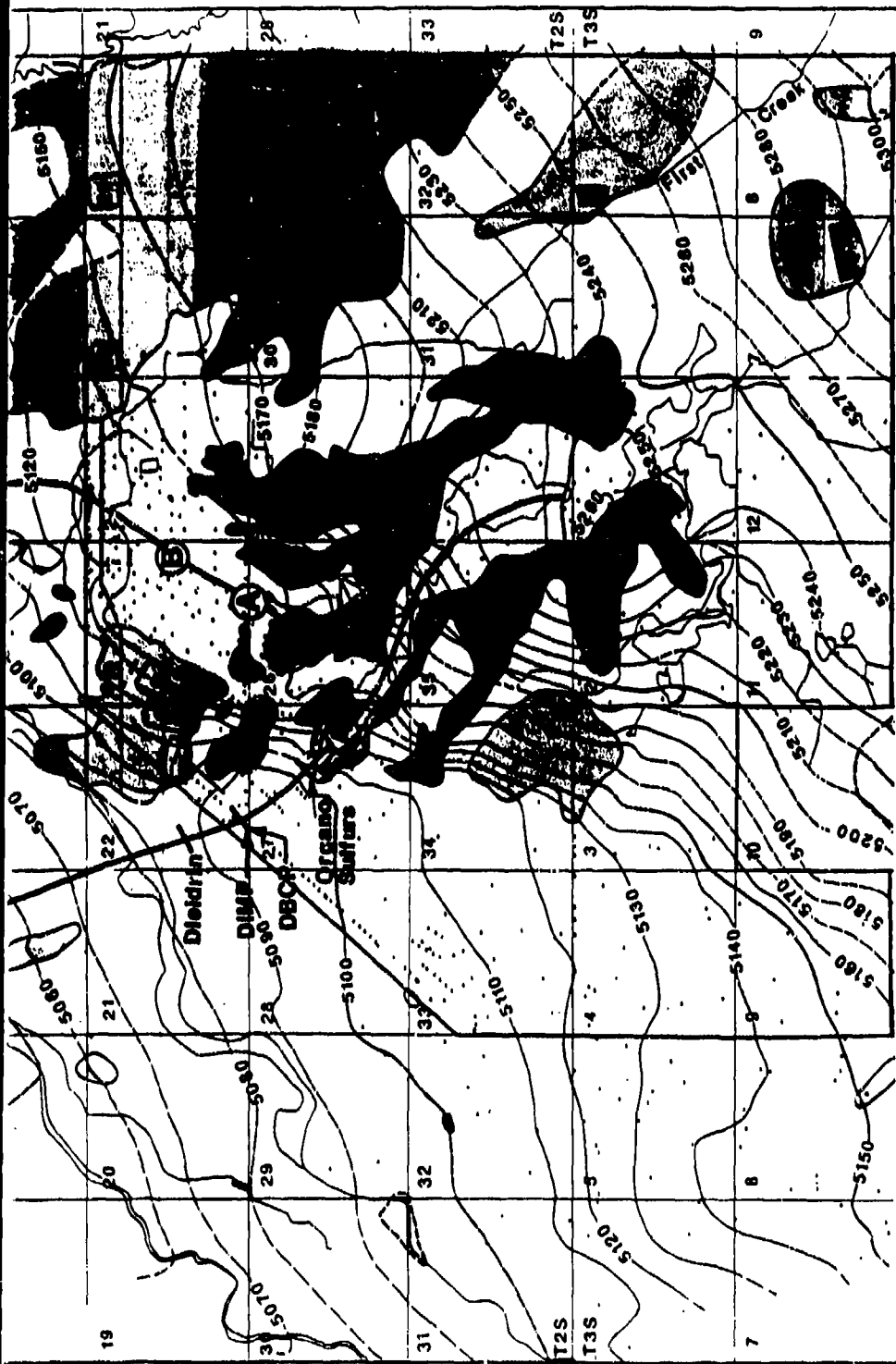
The second method that could be used to estimate vertical hydraulic conductivity was using laboratory permeability tests conducted by WES (1982, RIC#82295R01) on clayshale core samples from Wells 32002 and 35067. The sample intervals were from 107.6 to 108.0 ft, and 77.0 to 77.6 ft, respectively, and were below the depth of weathering. The average vertical hydraulic conductivity value from these falling head permeability tests was 0.16 ft/day. This value appears to be overestimated due to the travel times that would be associated with its use.

A third method used to estimate vertical hydraulic conductivity assumed that it is generally two orders of magnitude less than the horizontal hydraulic conductivity value (Freeze and Cherry, 1980). A slug test performed on Well 24145, screened in jointed clayshale (May et al., 1980, RIC#81266R48), yielded a horizontal value of 5.7×10^{-2} ft/day. Using this value, and assuming vertical hydraulic conductivity would be two orders of magnitude less, a vertical value of 5.7×10^{-4} ft/day is obtained. The horizontal value may be underestimated, thereby underestimating the vertical value, due

to the slug test not stressing the aquifer enough to yield water from the fractures.

It is important when considering vertical hydraulic conductivity to note that it generally decreases with depth due to decreased fracturing and weathering and increased consolidation of the rock.





EXPLANATION

Contour Interval Equals 10 Feet

Elevations in Feet

Datum Mean Sea Level

Unaturated Alluvium

Inferred Contour

Interpreted Contour

Migration Pathways

Ground-Water Travel Distance
Over 30 Years Using

(A)

Minimum K Value

(B)

Best Estimate K Value

(C)

Maximum K Value

Apparent Plume Extent

Figure E-1

CONTAMINANT MIGRATION DISTANCES IN SELECTED PATHWAYS

Prepared for:
U.S. Army Program Manager's Office
For Rocky Mountain Arsenal

SOURCE: HLA, 1988

Aberdeen Proving Ground, Maryland